The Little Data Book on Information and Communication Technology



Economic and social context	Usage
Sector structure	Quality
Sector efficiency and capacity	Affordability
Sector performance	Trade
Access	Applications





2015 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 2015, there are more than 7 billion mobile-cellular subscriptions worldwide. Globally, 3.2 billion people are using the Internet of which 2 billion are from developing countries. Mobile-broadband subscriptions have risen constantly to reach 3 billion while the number of fixed-broadband subscriptions reach more than 790 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 2015 illustrates the progress of this revolution for 214 economies around the world. It provides comparable statistics on the sector for 2005 and 2014 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 2005 and 2014 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 232.

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 September 18, 2015.

Regional tables

The country composition of regions is based on the World Bank's analytical regions and may differ from common geographic usage. These regions include low- and middle-income economies only.

East Asia and Pacific

American Samoa, Cambodia, China, Fiji, Indonesia, Kiribati, Democratic People's Republic of Korea, Lao People's Democratic Republic, Malaysia, Marshall Islands, Federated States of Micronesia, Mongolia, Myanmar, Palau, Papua New Guinea, the Philippines, Samoa, Solomon Islands, Thailand, Timor-Leste, Tonga, Tuvalu, Vanuatu, Vietnam

Europe and Central Asia

Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Georgia, Kazakhstan, Kosovo, Kyrgyz Republic, Former Yugoslav Republic of Macedonia, Moldova, Montenegro, Romania, Serbia, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan

Latin America and the Caribbean

Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, St. Lucia, St. Vincent and the Grenadines, Suriname

Middle East and North Africa

Algeria, Djibouti, Arab Republic of Egypt, Islamic Republic of Iran, Iraq, Jordan, Lebanon, Libya, Morocco, Syrian Arab Republic, Tunisia, West Bank and Gaza, Republic of Yemen

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, 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, Sierra Leone, Somalia, South Africa, South Sudan, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe

World

	2005	2014
Economic and social context		
Population (millions)	6,515	7,261
Urban population (% of total)	49	53
GNI per capita, World Bank Atlas method (\$)	7,288	10,779
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.9	2.2
Adult literacy rate (% ages 15 and older)	82	85
Gross primary, secondary, tertiary school enrollment (%)	66	74
Sector structure		
Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly)		
International gateway(s)		
Mobile telephone service		
Internet service		
Foreign ownership (not allowed, restricted, allowed)		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity		
Telecommunications revenue (% of GDP)	3.0	2.6
Telecommunications investment (% of revenue)	18.3	19.
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	19.4	15.2
Mobile-cellular telephone subscriptions (per 100 people)	33.9	96.
Fixed-broadband subscriptions (per 100 people)	3.7	9.0
Households with a computer (%)	27.6	44.2
Households with Internet access at home (%)	18.9	44.
Usage		
Int'l. voice traffic, total (minutes/subscription/month)		6.
Domestic mobile traffic (minutes/subscription/month)		200
Individuals using the Internet (%)	15.8	40.7
Quality Population covered by a mobile-cellular network (%)	67	90
International Internet bandwidth (bit/s per Internet user)		61,01
Affordability		
Fixed-telephone sub-basket (\$ a month)		10.
Mobile-cellular sub-basket (\$ a month)		13.
Fixed-broadband sub-basket (\$ a month)		21.
Trade		
ICT goods exports (% of total goods exports)	13.5	9.
ICT goods imports (% of total goods imports)	13.8	11.
ICT service exports (% of total service exports)	27.2	31.
Applications		
Online service index (0-1, 1=highest presence)	0.45	0.3
		188.

East Asia & Pacific

	2005	2014
Economic and social context		
Population (millions)	1,895	2,021
Urban population (% of total)	42	52
GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %)	1,634 8.4	6,121 8.7
Adult literacy rate (% ages 15 and older)	91	95
Gross primary, secondary, tertiary school enrollment (%)	65	76
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	2.0	0.1
Telecommunications revenue (% of GDP)	3.2	2.1
Telecommunications investment (% of revenue)	23.5	21.8
Sector performance		
Access	20.9	14.7
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	28.1	100.5
Fixed-broadband subscriptions (per 100 people)	20.1	11.1
Households with a computer (%)	20.4	39.9
Households with Internet access at home (%)	9.0	41.9
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	1.3	0.5
Domestic mobile traffic (minutes/subscription/month)	132	386
Individuals using the Internet (%)	8.3	42.1
Quality		
Population covered by a mobile-cellular network (%)	93	99
International Internet bandwidth (bit/s per Internet user)	975	8,692
Affordability		
Fixed-telephone sub-basket (\$ a month)		5.5
Mobile-cellular sub-basket (\$ a month)		6.9
Fixed-broadband sub-basket (\$ a month)		20.5
Trade		
ICT goods exports (% of total goods exports)	29.6	24.6
ICT goods imports (% of total goods imports)	24.4	
ICT service exports (% of total service exports)	26.5	32.6
Applications		
Online service index (0-1, 1=highest presence)	0.29	0.20
Secure Internet servers (per million people)	0.8	8.9

Europe & Central Asia

	2005	2014
Economic and social context		
Population (millions)	250	264
Urban population (% of total)	58	60
GNI per capita, World Bank Atlas method (\$)	3,232	6,86
GDP growth, 2000–05 and 2005–14 (avg. annual %)	6.0	3.
Adult literacy rate (% ages 15 and older)	96	9
Gross primary, secondary, tertiary school enrollment (%)	77	80
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	2.
Telecommunications investment (% of revenue)	23.3	19.
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	21.6	19.
Mobile-cellular telephone subscriptions (per 100 people)	47.8	112.
Fixed-broadband subscriptions (per 100 people)	1.0	13.
Households with a computer (%)	18.5	51.
Households with Internet access at home (%)	5.9	48.
Usage		
Int'l. voice traffic, total (minutes/subscription/month)		
Domestic mobile traffic (minutes/subscription/month)		
Individuals using the Internet (%)	10.8	48.
Quality		
Population covered by a mobile-cellular network (%)	91	9
International Internet bandwidth (bit/s per Internet user)	1,868	59,46
Affordability		
Fixed-telephone sub-basket (\$ a month)		4.
Mobile-cellular sub-basket (\$ a month)		10.
Fixed-broadband sub-basket (\$ a month)		11.
Trade		
ICT goods exports (% of total goods exports)	2.1	1.
ICT goods imports (% of total goods imports)	5.4	4.
CT service exports (% of total service exports)	8.7	15.
Applications		
Online service index (0-1, 1=highest presence)	0.46	0.4
	6.8	46.

Latin America & Caribbean

	2005	2014
Economic and social context		
Population (millions)	471	525
Urban population (% of total)	75	78
GNI per capita, World Bank Atlas method (\$)	4,293	8,995
GDP growth, 2000–05 and 2005–14 (avg. annual %)	2.6	3.3
Adult literacy rate (% ages 15 and older)	89	92
Gross primary, secondary, tertiary school enrollment (%)	79	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	0.4	
Telecommunications revenue (% of GDP)	3.4	2.9
Telecommunications investment (% of revenue)	21.3	18.9
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	16.9	
Mobile-cellular telephone subscriptions (per 100 people)	40.5	
Fixed-broadband subscriptions (per 100 people)	1.4	
Households with a computer (%)	15.7 9.4	42.0 37.2
Households with Internet access at home (%)	9.4	31.2
Usage		
Int'l. voice traffic, total (minutes/subscription/month)		4.1
Domestic mobile traffic (minutes/subscription/month)	39	103
Individuals using the Internet (%)	16.1	47.5
Quality		
Population covered by a mobile-cellular network (%)	89	99
International Internet bandwidth (bit/s per Internet user)	1,146	34,722
Affordability		
Fixed-telephone sub-basket (\$ a month)		9.1
Mobile-cellular sub-basket (\$ a month)		12.9
Fixed-broadband sub-basket (\$ a month)		20.7
Trade		
ICT goods exports (% of total goods exports)	10.5	9.2
ICT goods imports (% of total goods imports)	14.0	13.4
ICT service exports (% of total service exports)		•
Applications		
Online service index (0-1, 1=highest presence)	0.47	0.36
Secure Internet servers (per million people)	10.0	46.7

Middle East & North Africa

	2005	2014	
Economic and social context			
Population (millions)	304	357	
Urban population (% of total)	57	60	
GNI per capita, World Bank Atlas method (\$)	1,988		
GDP growth, 2000–05 and 2005–14 (avg. annual %)	4.6	2.9	
Adult literacy rate (% ages 15 and older)	68 69	78 77	
Gross primary, secondary, 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	3.7	2.6	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	21.7	2.0 17.1	
	21.7	17.1	
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	14.4	15.1	
Mobile-cellular telephone subscriptions (per 100 people)	22.4	100.7	
Fixed-broadband subscriptions (per 100 people)	0.4	5.5	
Households with a computer (%)	15.4		
Households with Internet access at home (%)	8.9	37.3	
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	8.5	6.6	
Domestic mobile traffic (minutes/subscription/month)			
Individuals using the Internet (%)	8.5	32.7	
Quality			
Population covered by a mobile-cellular network (%)	79	98	
International Internet bandwidth (bit/s per Internet user)	645	9,572	
Affordability			
Fixed-telephone sub-basket (\$ a month)		5.2	
Mobile-cellular sub-basket (\$ a month)		7.8	
Fixed-broadband sub-basket (\$ a month)		11.8	
Trade			
ICT goods exports (% of total goods exports)	0.7	0.8	
ICT goods imports (% of total goods imports)	5.2	4.1	
ICT service exports (% of total service exports)			
Applications			
Online service index (0-1, 1=highest presence)	0.35	0.33	
Secure Internet servers (per million people)	0.6	4.5	
* * * *			

South Asia

2005 2014

Economic and social context	1 511	1 701
Population (millions) Urban population (% of total)	1,511 29	1,721
GNI per capita, World Bank Atlas method (\$)	701	1,502
GDP growth, 2000–05 and 2005–14 (avg. annual %)	6.3	6.9
Adult literacy rate (% ages 15 and older)	58	67
Gross primary, secondary, tertiary school enrollment (%)	57	67
Sector structure		
Separate telecommunications/ICT regulator		
Status of main fixed-line telephone operator		
Level of competition (competition, partial comp., monopoly) International gateway(s)		
Mobile telephone service		
Internet service		
Foreign ownership (not allowed, restricted, allowed)		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		
Sector efficiency and capacity		
Telecommunications revenue (% of GDP)	2.4	1.8
Telecommunications investment (% of revenue)	37.8	16.2
Sector performance		
Access	4.0	2.2
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	7.8	75.0
Fixed-broadband subscriptions (per 100 people)	0.1	1.2
Households with a computer (%)	2.0	12.5
Households with Internet access at home (%)	1.4	14.0
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	5.3	8.9
Domestic mobile traffic (minutes/subscription/month)		168
Individuals using the Internet (%)	2.5	16.6
Quality	0.7	0.4
Population covered by a mobile-cellular network (%)	37	94
International Internet bandwidth (bit/s per Internet user)	560	5,833
Affordability Fixed-telephone sub-basket (\$ a month)		2.6
Mobile-cellular sub-basket (\$ a month)		2.8
Fixed-broadband sub-basket (\$ a month)		5.6
Trade		
ICT goods exports (% of total goods exports)	1.0	1.3
ICT goods imports (% of total goods imports)	7.6	5.3
ICT service exports (% of total service exports)	61.5	62.2
Applications		
Online service index (0-1, 1=highest presence)	0.31	0.33
Secure Internet servers (per million people)	0.5	4.7

Sub-Saharan Africa

	2005	2014
Economic and social context	700	0.70
Population (millions)	762	973
Urban population (% of total)	33	37
GNI per capita, World Bank Atlas method (\$)	785	,
GDP growth, 2000–05 and 2005–14 (avg. annual %)	5.3	4.5
Adult literacy rate (% ages 15 and older)	57	60
Gross primary, secondary, tertiary school enrollment (%)	52	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)	4.5	3.1
Telecommunications investment (% of revenue)		26.4
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	1.5	1.2
Mobile-cellular telephone subscriptions (per 100 people)	12.0	71.1
Fixed-broadband subscriptions (per 100 people)	0.0	0.4
Households with a computer (%)	3.6	9.4
Households with Internet access at home (%)	1.1	9.8
Usage		
Int'l. voice traffic, total (minutes/subscription/month)		5.1
Domestic mobile traffic (minutes/subscription/month)		60
Individuals using the Internet (%)	2.1	19.2
managan companient (10)		10.2
Quality Population covered by a mobile-cellular network (%)	51	82
International Internet bandwidth (bit/s per Internet user)		26,549
international internet bandwidth (bit/s per internet user)	230	20,549
Affordability		
Fixed-telephone sub-basket (\$ a month)		10.5
Mobile-cellular sub-basket (\$ a month)		13.0
Fixed-broadband sub-basket (\$ a month)		40.6
Trade		
ICT goods exports (% of total goods exports)	0.6	0.5
ICT goods imports (% of total goods imports)	7.6	5.6
ICT service exports (% of total service exports)	12.5	17.3
Applications		
Online service index (0-1, 1=highest presence)	0.25	0.15
Secure Internet servers (per million people)	2.0	8.6

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. Low- and middle-income economies are sometimes referred to as developing economies. The use of the term is convenient; it is not intended to imply that all economies in the group are experiencing similar development or that other economies have reached a preferred or final stage of development. Classification by income does not necessarily reflect development status. 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 \$1,045 or less in 2014.

Middle-income economies are those with a GNI per capita of more than \$1,045 but less than \$12,735. Lower-middle-income and upper-middle income economies are separated at a GNI per capita of \$4,125.

High-income economies are those with a GNI per capita of \$12,736 or more.

Euro area includes the member states of the Economic and Monetary Union of the European Union that have adopted the euro as their currency: Austria, Belgium, Cyprus, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Portugal, Slovak Republic. Slovenia. and Spain.

Low income

	2005	2014
Economic and social context		
Population (millions)	488	622
Urban population (% of total)	26	30
GNI per capita, World Bank Atlas method (\$)	291	626
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.6	6.1
Adult literacy rate (% ages 15 and older)	54	57
Gross primary, secondary, tertiary school enrollment (%)	51	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)		
Telecommunications investment (% of revenue)		
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	0.8	0.9
Mobile-cellular telephone subscriptions (per 100 people)	3.9	57.2
Fixed-broadband subscriptions (per 100 people)	0.0	0.2
Households with a computer (%)	1.3	4.5
Households with Internet access at home (%)	0.3	4.2
Usage		
Int'l. voice traffic, total (minutes/subscription/month)		
Domestic mobile traffic (minutes/subscription/month)		40
Individuals using the Internet (%)	1.0	6.3
marriadas domg are internet (19)	1.0	0.0
Quality Population covered by a mobile-cellular network (%)	38	
International Internet bandwidth (bit/s per Internet user)	174	4,196
Afficial at 19th		
Affordability		8.7
Fixed-telephone sub-basket (\$ a month)		
Mobile-cellular sub-basket (\$ a month)		11.7
Fixed-broadband sub-basket (\$ a month)		44.9
Trade		
ICT goods exports (% of total goods exports)		
ICT goods imports (% of total goods imports)		2.7
ICT service exports (% of total service exports)	14.0	21.5
Applications		
Online service index (0-1, 1=highest presence)	0.20	0.11
Secure Internet servers (per million people)	0.2	1.2

Middle income

	2005	2014
Economic and social context		
Population (millions)	4,704	5,240
Urban population (% of total)	43	49
GNI per capita, World Bank Atlas method (\$)	1,710	4,653
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.7	6.0
Adult literacy rate (% ages 15 and older)	79	83
Gross primary, secondary, tertiary school enrollment (%)	63	72
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	2.4
Telecommunications investment (% of revenue)	21.9	19.8
Sector performance Access		
Fixed-telephone subscriptions (per 100 people)	13.5	10.2
Mobile-cellular telephone subscriptions (per 100 people)	23.4	93.6
Fixed-broadband subscriptions (per 100 people)	1.1	4.3
	14.1	32.2
Households with a computer (%) Households with Internet access at home (%)	6.7	32.5
mouseholds with internet access at nome (%)	0.7	32.3
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	3.8	4.6
Domestic mobile traffic (minutes/subscription/month)	_ ::	223
Individuals using the Internet (%)	7.1	34.1
Quality		
Population covered by a mobile-cellular network (%)	86	97
International Internet bandwidth (bit/s per Internet user)	983	17,417
Affordability		
Fixed-telephone sub-basket (\$ a month)		6.9
Mobile-cellular sub-basket (\$ a month)		11.1
Fixed-broadband sub-basket (\$ a month)		17.3
Trade		
ICT goods exports (% of total goods exports)	18.3	15.6
ICT goods imports (% of total goods imports)	16.4	13.4
ICT service exports (% of total service exports)	27.1	34.6
Applications		
	0.41	0.31
Online service index (0-1, 1=highest presence)	0.41	

Lower middle income

	2005	2014
Economic and social context		
Population (millions)	2,505	2,879
Urban population (% of total)	35	39
GNI per capita, World Bank Atlas method (\$)	844	2,012
GDP growth, 2000–05 and 2005–14 (avg. annual %)	5.9	5.9
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	67 59	73 67
- Cross primary, secondary, tertiary serior enrollment (1/1)		
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	2.3
Telecommunications investment (% of revenue)	23.6	19.8
Sector performance Access		
Fixed-telephone subscriptions (per 100 people)	4.8	4.0
Mobile-cellular telephone subscriptions (per 100 people)	12.9	87.1
Fixed-broadband subscriptions (per 100 people)	0.1	2.4
Households with a computer (%)	3.2	17.0
Households with Internet access at home (%)	2.2	18.3
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	6.8	8.8
Domestic mobile traffic (minutes/subscription/month)		148
Individuals using the Internet (%)	3.7	22.6
Quality		
Population covered by a mobile-cellular network (%)	52	94
International Internet bandwidth (bit/s per Internet user)	508	10,618
Affordability		_
Fixed-telephone sub-basket (\$ a month)		5.0
Mobile-cellular sub-basket (\$ a month)		7.7
Fixed-broadband sub-basket (\$ a month)		18.6
Trade		
ICT goods exports (% of total goods exports)	7.2	6.2
ICT goods imports (% of total goods imports)	9.5	8.0
ICT service exports (% of total service exports)	39.4	51.1
Applications		
Online service index (0-1, 1=highest presence)	0.32	0.24
Secure Internet servers (per million people)	0.6	5.9

Upper middle income

	2005	2014
Economic and social context		
Population (millions)	2,199	
Urban population (% of total)	53	62
GNI per capita, World Bank Atlas method (\$)	2,697	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.7	6.0
Adult literacy rate (% ages 15 and older)	90	94
Gross primary, secondary, tertiary school enrollment (%)	69	80
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	2.4
Telecommunications investment (% of revenue)	19.2	19.7
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	23.0	17.6
Mobile-cellular telephone subscriptions (per 100 people)	35.3	101.4
Fixed-broadband subscriptions (per 100 people)	2.3	11.7
Households with a computer (%)	21.8	
Households with Internet access at home (%)	10.1	
Usage		
Int'l. voice traffic, total (minutes/subscription/month)	2.5	1.6
Domestic mobile traffic (minutes/subscription/month)	98	293
Individuals using the Internet (%)	11.1	47.7
Quality		
Population covered by a mobile-cellular network (%)	94	99
International Internet bandwidth (bit/s per Internet user)	1,162	21,253
Affordability		
Fixed-telephone sub-basket (\$ a month)		8.9
Mobile-cellular sub-basket (\$ a month)		12.4
Fixed-broadband sub-basket (\$ a month)		17.3
Trade		
ICT goods exports (% of total goods exports)	20.8	18.0
ICT goods imports (% of total goods imports)	18.6	
ICT service exports (% of total service exports)	20.6	
Applications		
Online service index (0-1, 1=highest presence)	0.47	0.3
Secure Internet servers (per million people)	3.8	23.3
oceane internet servers (her minion heahie)	5.0	20.

Low and middle income

	2005	2014
Economic and social context		
Population (millions)	5,192	5,862
Urban population (% of total)	42	47
GNI per capita, World Bank Atlas method (\$)	1,577	4,226
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.7	6.0
Adult literacy rate (% ages 15 and older)	77	81
Gross primary, secondary, tertiary school enrollment (%)	62	70
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	2.4
Telecommunications investment (% of revenue)	27.6	20.8
Sector performance		
Access		
Fixed-telephone subscriptions (per 100 people)	12.4	9.3
Mobile-cellular telephone subscriptions (per 100 people)	21.7	89.8
Fixed-broadband subscriptions (per 100 people)	1.1	3.8
Households with a computer (%)	13.4	30.1
Households with Internet access at home (%)	6.3	30.3
Usage		
Int'l. voice traffic, total (minutes/subscription/month)		4.6
Domestic mobile traffic (minutes/subscription/month)		214
Individuals using the Internet (%)	6.6	31.1
Quality Population covered by a mobile-cellular network (%)	84	96
International Internet bandwidth (bit/s per Internet user)		17,145
mentalista menteralista anti-	01.	1.,1.
Affordability		
Fixed-telephone sub-basket (\$ a month)		7.2
Mobile-cellular sub-basket (\$ a month)		11.3
Fixed-broadband sub-basket (\$ a month)		20.0
Trade		
ICT goods exports (% of total goods exports)	18.1	15.5
ICT goods imports (% of total goods imports)	16.3	
ICT service exports (% of total service exports)	26.9	34.5
Applications		
Online service index (0-1, 1=highest presence)	0.35	0.20
Secure Internet servers (per million people)	2.0	12.4

	2005	2014
Economic and social context		
Population (millions)	1,322	1,399
Urban population (% of total)	78	81
GNI per capita, World Bank Atlas method (\$)	29,714	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.3	1.1
Adult literacy rate (% ages 15 and older)	98	99
Gross primary, secondary, tertiary school enrollment (%)	89	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)	2.9	2.6
Telecommunications investment (% of revenue)	15.0	16.8
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 (%)	46.6 81.9 12.9 58.7 47.9	39.9 123.3 28.0 80.3 81.0
Usage		
Int'l. voice traffic, total (minutes/subscription/month)		
Domestic mobile traffic (minutes/subscription/month)		188
Individuals using the Internet (%)	51.8	80.6
marvadas asing the internet (%)	01.0	00.0
Quality Population covered by a mobile-cellular network (%)	98	100
International Internet bandwidth (bit/s per Internet user)		131,821
Affordability		
Fixed-telephone sub-basket (\$ a month)		23.7
Mobile-cellular sub-basket (\$ a month)		18.7
Fixed-broadband sub-basket (\$ a month)		26.9
Trade		
ICT goods exports (% of total goods exports)	12.3	8.2
ICT goods imports (% of total goods imports)	13.2	10.5
ICT service exports (% of total service exports)	27.2	30.3
Applications		
		0.07
Online service index (0-1, 1=highest presence)	0.65	0.67

Euro area

	2005	2014
Economic and social context		
Population (millions)	329	339
Urban population (% of total)	74	76
GNI per capita, World Bank Atlas method (\$)	32,439 1.5	39,173
GDP growth, 2000–05 and 2005–14 (avg. annual %) Adult literacy rate (% ages 15 and older)	98	99
Gross primary, secondary, tertiary school enrollment (%)	92	97
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	1.7
Telecommunications investment (% of revenue)	12.7	16.4
Sector performance		
Access Fixed-telephone subscriptions (per 100 people)	51.3	46.2
Mobile-cellular telephone subscriptions (per 100 people)	97.9	
Fixed-broadband subscriptions (per 100 people)	13.1	34.0
Households with a computer (%)	57.9	
Households with Internet access at home (%)	46.1	81.
Usage		
Int'l. voice traffic, total (minutes/subscription/month)		
Domestic mobile traffic (minutes/subscription/month)	84	12
Individuals using the Internet (%)	51.2	78.3
Quality	00	10
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	99 9,568	100 172,389
, , , , , , , , , , , , , , , , , , , ,	.,	
Affordability		00
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		26.: 23.
Fixed-broadband sub-basket (\$ a month)		
,		20.
Trade ICT goods exports (% of total goods exports)	8.2	4.
ICT goods imports (% of total goods imports)	10.1	6.
ICT service exports (% of total service exports)	31.4	34.
Applications		
Online service index (0-1, 1=highest presence)	0.68	0.6
Secure Internet servers (per million people)	143.1	830.

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 2015 or data.worldbank.org.

Afghanistan

South Asia Low income

	Countr	Country data		Country data in		Country data	Low- income group
-	2005	2014	2014				
Economic and social context							
Population (millions)	24	32	622				
Urban population (% of total)	23	26	30				
GNI per capita, World Bank Atlas method (\$)	250	670	626				
GDP growth, 2000–05 and 2005–14 (avg. annual %)	6.2	9.3	6.1				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	 53	32 62	57 59				
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	Р	Р					
Internet service	Р	С					
Foreign ownership (not allowed, restricted, allowed)	Α	R					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	С					
Sector efficiency and capacity	6.0						
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	37.8						
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 (%)	0.2 4.8 0.0 0.8 0.8	0.3 74.9 0.0 2.7 2.3	0.9 57.2 0.2 4.5 4.2				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)							
Domestic mobile traffic (minutes/subscription/month)	28.8		39.8				
Individuals using the Internet (%)	1.2	6.4	6.3				
Quality							
Population covered by a mobile-cellular network (%)	72	89					
International Internet bandwidth (bit/s per Internet user)	13	6,942	4,196				
Affordability							
Fixed-telephone sub-basket (\$ a month)		1.6	8.7				
Mobile-cellular sub-basket (\$ a month)		5.9	11.7				
Fixed-broadband sub-basket (\$ a month)		22.5	44.9				
Trade							
ICT goods exports (% of total goods exports)							
ICT goods imports (% of total goods imports)		0.0	2.7				
ICT service exports (% of total service exports)		65.9	21.5				
Applications	0.00	0.46					
Online service index (0-1, 1=highest presence)	0.20	0.18	0.11				
Secure Internet servers (per million people)	0.0	1.0	1.2				

Albania

Europe & Central Asia U	pper middle incom		
	Country data		Upper middle- income
-	2005	2014	group 2014
Economic and social context	2003	2014	2017
Population (millions)	3	3	2,361
Urban population (% of total)	47	56	62
GNI per capita, World Bank Atlas method (\$)	2,690	4,460	7,873
GDP growth, 2000–05 and 2005–14 (avg. annual %)	5.3	3.7	6.0
Adult literacy rate (% ages 15 and older)	99	97	94
Gross primary, secondary, tertiary school enrollment (%)	66		80
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)	Р	С	
Mobile telephone service	Р	P	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	Α	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	6.1	2.0	2.4
Telecommunications investment (% of revenue)	11.2	34.9	19.7
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	8.7	7.8	17.6
Mobile-cellular telephone subscriptions (per 100 people)	47.9	105.5	101.4
Fixed-broadband subscriptions (per 100 people)	0.0	6.6	11.7
Households with a computer (%)	4.9	23.5	46.0
Households with Internet access at home (%)	3.4	26.6	45.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	41.0	20.7	1.6
Domestic mobile traffic (minutes/subscription/month)	21.5	149.7	293.4
Individuals using the Internet (%)	6.0	60.1	47.7
Quality	01	100	00
Population covered by a mobile-cellular network (%)	91	100	99
International Internet bandwidth (bit/s per Internet user)	62	26,117	21,253
Affordability		7 1	0.0
Fixed-telephone sub-basket (\$ a month)		7.1	8.9
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		31.7 11.3	12.4 17.3
Trade			
Irade ICT goods exports (% of total goods exports)	0.6	0.4	18.0
	3.8	3.0	15.1
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	10.3	9.2	27.4
Annlications			
Applications Online service index (0-1, 1=highest presence)	0.47	0.45	0.37

Algeria

Middle East & North Africa	Upper n	pper middle incon		
	Count	Country data		
	2005	2014	group 2014	
Economic and social context				
Population (millions)	33	39	2,361	
Urban population (% of total)	64	70	62	
GNI per capita, World Bank Atlas method (\$)	2,710	5,480	7,873	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.6	2.8	6.0	
Adult literacy rate (% ages 15 and older)	73		94	
Gross primary, secondary, tertiary school enrollment (%)	69	79	80	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Public	Public		
Level of competition (competition, partial comp., monopoly)	_			
International gateway(s)	P	M		
Mobile telephone service	P	М		
Internet service	C	M		
Foreign ownership (not allowed, restricted, allowed)	No A	No		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	ed) A	A		
Sector efficiency and capacity	2.7	2.0	0	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.7 36.0	3.0	2.4 19.7	
	30.0		15.1	
Sector performance				
Access	7.6	7.7	17.6	
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	40.2	93.3	101.4	
Fixed-broadband subscriptions (per 100 people)	0.4	4.0	101.2	
Households with a computer (%)	7.1	28.2	46.0	
Households with Internet access at home (%)	1.2	25.9	45.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	8.1	6.5	1.6	
Domestic mobile traffic (minutes/subscription/month)	12.4	188.7	293.4	
Individuals using the Internet (%)	5.8	18.1	47.7	
Quality				
Population covered by a mobile-cellular network (%)	42	98	99	
International Internet bandwidth (bit/s per Internet user)	79	12,460	21,253	
Affordability				
Fixed-telephone sub-basket (\$ a month)		5.9	8.9	
Mobile-cellular sub-basket (\$ a month)		13.0	12.4	
Fixed-broadband sub-basket (\$ a month)		19.6	17.3	
Trade				
ICT goods exports (% of total goods exports)	0.0	0.0	18.0	
ICT goods imports (% of total goods imports)	7.9	4.2	15.1	
ICT service exports (% of total service exports)	29.2	60.5	27.4	
Applications				
Online service index (0-1, 1=highest presence)	0.35	0.08	0.37	
Secure Internet servers (per million people)	0.1	2.0	23.3	

American Samoa

Economic and social context	Counti		Upper middle
		rv data	income
	2005	2014	group 2014
Population (millions)	0.06	0.06	2,36
Urban population (% of total)	88	87	6:
GNI per capita, World Bank Atlas method (\$)			7,87
GDP growth, 2000-05 and 2005-14 (avg. annual %)			6.
Adult literacy rate (% ages 15 and older)			9
Gross primary, secondary, tertiary school enrollment (%)			8
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	M	
Mobile telephone service	M	M	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) B	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.
Telecommunications investment (% of revenue)			19.
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	17.6	17.9	17.
Mobile-cellular telephone subscriptions (per 100 people)	3.8		101.
Fixed-broadband subscriptions (per 100 people)			11.
Households with a computer (%)			46.
Households with Internet access at home (%)			45.
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			1.
Domestic mobile traffic (minutes/subscription/month)			293.
Individuals using the Internet (%)			47.
Quality			
Population covered by a mobile-cellular network (%)			9
International Internet bandwidth (bit/s per Internet user)			21,25
Affordability			
Fixed-telephone sub-basket (\$ a month)			8.
Mobile-cellular sub-basket (\$ a month)			12.
Fixed-broadband sub-basket (\$ a month)			17.
Trade			
ICT goods exports (% of total goods exports)			18.
ICT goods imports (% of total goods imports)			15.
IOT			27.
ICT service exports (% of total service exports)			
ICT service exports (% of total service exports) Applications Online service index (0-1, 1=highest presence)			0.3

Andorra

Population (millions)		Country data		High- income
Population (millions)				group 2014
Urban population (% of total) 90 86 81 6MI per capita, World Bank Atlas method (\$) 40,040 43,270 38,317 6DIP growth, 2000-05 and 2005-14 (avg. annual %) 8.4 -3.5 1.1 Adult literacy rate (% ages 15 and older) 99 Gross primary, secondary, tertiary school enrollment (%) 95 Sector structure Separate telecommunications/ICT regulator No Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) M M M International gateway(s) M M M International gateway(s) M M M Foreign ownership (not allowed, restricted, allowed) No No Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.1 3.4 2.6 Telecommunications investment (% of revenue) 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 43.6 47.7 39.9 Mobile-cellular telephone subscriptions (per 100 people) 12.7 35.9 28.0 Mouseholds with a computer (%) 82.6 80.3 Households with a computer (%) 82.6 80.3 Households with a computer (%) 81.6 81.0 Usage Usage Untl. voice traffic, total (minutes/subscription/month) 112.6 74.0 Domestic mobile traffic (minutes/subscription/month) 112.6 74.0 188.0 Individuals using the Internet (%) 37.6 95.9 80.6 Quality Population covered by a mobile-cellular network (%) 91 99 100 International Internet bandwidth (bit/s per Internet user) 13,750 78,057 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 2.3.7 Mobile-cellular sub-basket (\$ a month) 2.3.7 Mobile-cellular sub-basket (\$ a month) 2.3.7 Mobile-cellular sub-basket (\$ a month) 2.6.9 Trade ICT goods imports (% of total goods exports) 18.8 8.2 ICT goods imports (% of total goods imports) 14.0 10.5 ICT service exports (% of total service exports) 30.3	Economic and social context			
Sector efficiency and capacity Sector performance Access A	Population (millions)	0.08	0.07	1,399
Sector structure Separate telecommunications Sector structure Separate telecommunications ICT regulator No No No Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) M M M M M M M M M M M M M M M M M M	Urban population (% of total)	90	86	81
Adult literacy rate (% ages 15 and older)	GNI per capita, World Bank Atlas method (\$)	.,.	- /	38,317
Gross primary, secondary, tertiary school enrollment (%)		8.4	-3.5	
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service M M M Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment service treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment service service service service, service service, service service, service service,				
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 Mobile telephone service Internet service Mobile telephone service Internet service Mobile telephone service to the service to the service service service to the service ser	Gross primary, secondary, tertiary school enrollment (%)			95
Status of main fixed-line telephone operator Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) M M M M M M M M M	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s)	·			
International gateway(s) Mobile telephone service Internet sub-basket Interne		Public	Public	
Mobile telephone service M M M Foreign ownership (not allowed, restricted, allowed) No No Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.1 3.4 2.6 Telecommunications investment (% of revenue) 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 79.5 82.6 123.3 Fixed-telephone subscriptions (per 100 people) 12.7 35.9 28.0 Households with a computer (%) 82.6 80.3 Households with Internet access at home (%) 81.6 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 112.6 74.0 Domestic mobile traffic (minutes/subscription/month) 65.4 50.7 188.0 Individuals using the Internet (%) 37.6 95.9 80.6 Quality Population covered by a mobile-cellular network (%) 91				
Internet service	3 , , ,			
Foreign ownership (not allowed, restricted, allowed)	•			
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Tixed-broadband subscriptions (per 100 people) Tixed-telephone subscriptions (per 100 people) Tixed-telephone subscriptions (per 100 people) Tixed-broadband sub-basket (\$ a month) Tixed-cellular sub-basket (\$ a month)				
Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.1 3.4 2.6 Telecommunications investment (% of revenue) 16.8	•			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) 3.1 3.4 2.6 Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband sub-basket (\$ a month) Fixed-broadband sub-bask	Reg. treatment of VoIP (banned, closed, no framework, allowed)	. В	Α	
Telecommunications investment (% of revenue)	Sector efficiency and capacity			
Sector performance Access	• • •			
## Access	Telecommunications investment (% of revenue)		••	16.8
Fixed-telephone subscriptions (per 100 people)	Sector performance			
Mobile-cellular telephone subscriptions (per 100 people) 79.5 82.6 123.3 Fixed-broadband subscriptions (per 100 people) 12.7 35.9 28.0 Households with a computer (%) 82.6 80.3 Households with Internet access at home (%) 81.6 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 112.6 74.0 Domestic mobile traffic (minutes/subscription/month) 65.4 50.7 188.0 Individuals using the Internet (%) 37.6 95.9 80.6 Quality Population covered by a mobile-cellular network (%) 91 99 100 International Internet bandwidth (bit/s per Internet user) 13,750 78,057 131,821 Affordability Fixed-bleephone sub-basket (\$ a month) 23.7 Mobile-cellular sub-basket (\$ a month) 23.7 Trade ICT goods exports (% of total goods exports) 18.8 8.2 ICT goods imports (% of total goods imports) 14.0 <				
Fixed-broadband subscriptions (per 100 people) 12.7 35.9 28.0 Households with a computer (%) 82.6 80.3 Households with Internet access at home (%) 81.6 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 112.6 74.0 Domestic mobile traffic (minutes/subscription/month) 65.4 50.7 188.0 Individuals using the Internet (%) 37.6 95.9 80.6 Quality Population covered by a mobile-cellular network (%) 91 99 100 International Internet bandwidth (bit/s per Internet user) 13,750 78,057 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 23.7 Mobile-cellular sub-basket (\$ a month) 26.9 Trade ICT goods exports (% of total goods exports) 18.8 8.2 ICT goods imports (% of total service exports) 30.3 Applications Online service index (0-1, 1=highest presence) 0.52 0.43 0.67				
Households with a computer (%) 82.6 80.3 Households with Internet access at home (%) 81.6 81.0 **Usage** Int't. voice traffic, total (minutes/subscription/month) 112.6 74.0 Domestic mobile traffic (minutes/subscription/month) 65.4 50.7 188.0 Individuals using the Internet (%) 37.6 95.9 80.6 **Quality** Population covered by a mobile-cellular network (%) 91 99 100 International Internet bandwidth (bit/s per Internet user) 13,750 78,057 131,821 **Affordability** Fixed-telephone sub-basket (\$ a month) 23.7 Mobile-cellular sub-basket (\$ a month) 26.9 **Trade** ICT goods exports (% of total goods exports) 18.8 8.2 ICT goods imports (% of total goods imports) 14.0 10.5 ICT service exports (% of total service exports) 30.3 **Applications** Online service index (0-1, 1=highest presence) 0.52 0.43 0.67				
Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) ICT service exports (% of total service exports) CICT service exports (% of total service exports) Applications Online service index (0-1, 1=highest presence)				
### Usage Int'l. voice traffic, total (minutes/subscription/month) 112.6 74.0				
Int'l. voice traffic, total (minutes/subscription/month) 112.6 74.0 Domestic mobile traffic (minutes/subscription/month) 65.4 50.7 188.0 Individuals using the Internet (%) 37.6 95.9 80.6 Quality Population covered by a mobile-cellular network (%) 91 99 100 International Internet bandwidth (bit/s per Internet user) 13,750 78,057 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 23.7 Mobile-cellular sub-basket (\$ a month) 18.7 Fixed-broadband sub-basket (\$ a month) 26.9 Trade ICT goods exports (% of total goods exports) 18.8 8.2 ICT goods imports (% of total goods imports) 14.0 10.5 ICT service exports (% of total service exports) 30.3 Applications Online service index (0-1, 1=highest presence) 0.52 0.43 0.67	Households with internet access at nome (%)		81.6	81.0
Domestic mobile traffic (minutes/subscription/month) 65.4 50.7 188.0	Usage			
Affordability 91 99 100				
Quality Population covered by a mobile-cellular network (%) 91 99 100 International Internet bandwidth (bit/s per Internet user) 13,750 78,057 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 23.7 Mobile-cellular sub-basket (\$ a month) 18.7 Fixed-broadband sub-basket (\$ a month) 26.9 Trade ICT goods exports (% of total goods exports) 18.8 8.2 ICT goods imports (% of total goods imports) 14.0 10.5 ICT service exports (% of total service exports) 30.3 Applications Online service index (0-1, 1=highest presence) 0.52 0.43 0.67				
Population covered by a mobile-cellular network (%) 91 99 100	Individuals using the Internet (%)	37.6	95.9	80.6
Affordability 13,750 78,057 131,821	Quality			
### Affordability	•			
Fixed-telephone sub-basket (\$ a month) 23.7 Mobile-cellular sub-basket (\$ a month) 18.7 Fixed-broadband sub-basket (\$ a month) 26.9 Trade ICT goods exports (% of total goods exports) 18.8 8.2 ICT goods imports (% of total goods imports) 14.0 10.5 ICT service exports (% of total service exports) 30.3 Applications Online service index (0-1, 1=highest presence) 0.52 0.43 0.67	International Internet bandwidth (bit/s per Internet user)	13,750	78,057	131,821
Mobile-cellular sub-basket (\$ a month) 18.7 Fixed-broadband sub-basket (\$ a month) 26.9 Trade ICT goods exports (% of total goods exports) 18.8 8.2 ICT goods imports (% of total goods imports) 14.0 10.5 ICT service exports (% of total service exports) 30.3 Applications Online service index (0-1, 1=highest presence) 0.52 0.43 0.67	Affordability			
Fixed-broadband sub-basket (\$ a month)	Fixed-telephone sub-basket (\$ a month)			23.7
Trade ICT goods exports (% of total goods exports) 18.8 8.2 ICT goods imports (% of total goods imports) 14.0 10.5 ICT service exports (% of total service exports) 30.3 Applications Online service index (0-1, 1=highest presence) 0.52 0.43 0.67	Mobile-cellular sub-basket (\$ a month)			18.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) Applications Online service index (0-1, 1=highest presence) 18.8 10.5 14.0 30.3	Fixed-broadband sub-basket (\$ a month)			26.9
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) Applications Online service index (0-1, 1=highest presence) 14.0 30.3	Trade			
ICT service exports (% of total service exports) 30.3 Applications Online service index (0-1, 1=highest presence) 0.52 0.43 0.67	ICT goods exports (% of total goods exports)	18.8		8.2
Applications Online service index (0-1, 1=highest presence) 0.52 0.43 0.67	ICT goods imports (% of total goods imports)	14.0		10.5
Online service index (0-1, 1=highest presence) 0.52 0.43 0.67	ICT service exports (% of total service exports)			30.3
Online service index (0-1, 1=highest presence) 0.52 0.43 0.67	Applications			
	Online service index (0-1, 1=highest presence)	0.52	0.43	0.67
Secure internet servers (per million people) 416.0 879.3 928.0	Secure Internet servers (per million people)	418.6	879.3	928.0

Angola

Sub-Saharan Africa	Jpper n	niddle	income
	Counti	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	18	24	2,361
Urban population (% of total)	36	43	62
GNI per capita, World Bank Atlas method (\$)	1,170	4,850	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	10.1	7.8	6.0
Adult literacy rate (% ages 15 and older)	67	71	94
Gross primary, secondary, tertiary school enrollment (%)		73	80
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	М	М	
Internet service	М	М	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed) No	No	
Sector efficiency and capacity	2.2	2.2	2.4
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	25.3	2.3 30.5	2.4 19.7
- I reference (% of revenue)	20.0	30.3	13.1
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	0.6	1.3	17.6
Mobile-cellular telephone subscriptions (per 100 people)	9.7	63.5	101.4
Fixed-broadband subscriptions (per 100 people)	0.0	0.4	11.7
Households with a computer (%)	4.0	9.9	46.0
Households with Internet access at home (%)	1.4	8.6	45.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		4.8	1.6
Domestic mobile traffic (minutes/subscription/month)		112.5	293.4
Individuals using the Internet (%)	1.1	21.3	47.7
Quality			
Population covered by a mobile-cellular network (%)	40	90	99
International Internet bandwidth (bit/s per Internet user)	359	4,250	21,253
Affordability			
Fixed-telephone sub-basket (\$ a month)		16.5	8.9
Mobile-cellular sub-basket (\$ a month)		19.5	12.4
Fixed-broadband sub-basket (\$ a month)		50.8	17.3
Trade			
ICT goods exports (% of total goods exports)			18.0
ICT goods imports (% of total goods imports)			15.1
ICT service exports (% of total service exports)	9.3	2.9	27.4
Applications			
Online service index (0-1, 1=highest presence)	0.33	0.30	0.37
Secure Internet servers (per million people)	0.3	4.5	23.3

Antigua and Barbuda

	Count	Country data		Country data		Country data	High- income
	2005	2014	group 2014				
Economic and social context							
Population (millions)	0.08	0.09	1,399				
Urban population (% of total)	29	24	81				
GNI per capita, World Bank Atlas method (\$)	11,920	13,360	38,317				
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.8	-1.0	1.1				
Adult literacy rate (% ages 15 and older)	99	99	99				
Gross primary, secondary, tertiary school enrollment (%)		82	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	M					
Mobile telephone service	С	М					
Internet service	C	М					
Foreign ownership (not allowed, restricted, allowed)	Α.	A					
Reg. treatment of VoIP (banned, closed, no framework, allowed) B	А					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)			2.6				
Telecommunications investment (% of revenue)			16.8				
Sector performance							
Access							
Fixed-telephone subscriptions (per 100 people)	44.2	35.6	39.9				
Mobile-cellular telephone subscriptions (per 100 people)	104.2	120.0	123.3				
Fixed-broadband subscriptions (per 100 people)	7.0	15.1	28.0				
Households with laternat access at home (%)		56.1	80.3				
Households with Internet access at home (%)		52.0	81.0				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)		19.0					
Domestic mobile traffic (minutes/subscription/month)		231.1	188.0				
Individuals using the Internet (%)	27.0	64.0	80.6				
Quality							
Population covered by a mobile-cellular network (%)	100	100	100				
International Internet bandwidth (bit/s per Internet user)	24,896	120,321	131,821				
Affordability							
Fixed-telephone sub-basket (\$ a month)		12.8	23.7				
Mobile-cellular sub-basket (\$ a month)		19.1	18.7				
Fixed-broadband sub-basket (\$ a month)		54.9	26.9				
Trade							
ICT goods exports (% of total goods exports)	4.6	4.9	8.2				
ICT goods imports (% of total goods imports)	3.9	2.3	10.5				
ICT service exports (% of total service exports)	9.6	6.7	30.3				
Applications							
Online service index (0-1, 1=highest presence)	0.45	0.42	0.67				
Secure Internet servers (per million people)	859.9	363.0	928.0				

Argentina

Population (millions) 39 43 3.39		Count	Country data		Hi inc Country data	
Population (millions) 39 43 3,39 Urban population (% of total) 90 92 81 Soll N per capita, World Bank Atlas method (\$) 4,990 1,4160 38,317 GDP growth, 2000-05 and 2005-14 (avg. annual %) 2.2 4.6 1.1 Adult literacy rate (% ages 15 and older) 97 98 99 Gross primary, secondary, tertiary school enrollment (%) 89 105 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) M M M Mobile telephone service M M M Foreign ownership (not allowed, restricted, allowed) A R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A R Reg. treatment of VoIP (banned, closed, no framework, allowed) Elecommunications revenue (% of GDP) 2.6 2.4 2.6 Telecommunications revenue (% of GDP) 2.6 2.4 2.6 Telecommunications investment (% of revenue) 57.3 158.7 123.3 Fixed-telephone subscriptions (per 100 people) 2.4 14.7 28.0 Households with a computer (%) 32.0 62.1 80.3 Households with laternet access at home (%) 32.0 62.1 80.3 Households with Internet access at home (%) 17.7 64.7 80.6 Usage		2005	2014	-		
Urban population (% of total) 90 92 81	Economic and social context					
GNI per capita, World Bank Atlas method (\$) 4,990 14,160 38,317 GDP growth, 2000-05 and 2005-14 (avg. annual %) 2.2 4.6 1.1 Adult literacy rate (% ages 15 and older) 97 98 99 Gross primary, secondary, tertiary school enrollment (%) 89 105 95 Sector structure Separate telecommunications/ICT regulator Yes Private Private Private Occupants of competition (competition, partial comp., monopoly) International gateway(s) M M M M M M M M M M M M M M M M M M M	Population (millions)	39	43	1,399		
GDP growth, 2000-05 and 2005-14 (avg. annual %)						
Adult literacy rate (% ages 15 and older) 97 98 99 99 Gross primary, secondary, tertiary school enrollment (%) 89 105 95 Sector structure Separate telecommunications/ICT regulator Private Private Level of competition (competition, partial comp., monopoly) International gateway(s) M M M M M M M M M M M M M M M M M M M		,				
Sector structure Separate telecommunications/ICT regulator Yes Yes						
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 Mobile telephone service Internet service Mobile telephone service Mobile for the service Mobile telephone operator Internet service Mobile for the service Mobile telephone service (% of GDP) Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Fixed-sellular telephone seuscriptions (per 100 people) Fixed-broadband subscription (per 100 people) Fixed-broadband subscription (per 100 people) Fixed-broadband sign the Internet (%) Fixed-sellular sellular network (%) Fixed-sellular sellular network (%) Fixed-telephone sellular network (%) Fixed-telephone sellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)						
Status of main fixed-line telephone operator Private Private Level of competition (competition, partial comp., monopoly) International gateway(s) M M M M M M M M M	Sector structure					
Level of competition (competition, partial comp., monopoly) International gateway(s)			Yes			
International gateway(s)	·	Private	Private			
Mobile telephone service Internet service M M M M M M M M M M M M M M M M M M M						
Internet service						
Foreign ownership (not allowed, restricted, allowed)						
Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity 2.6 2.4 2.6 Telecommunications revenue (% of GDP) 2.6 2.4 2.6 Telecommunications investment (% of revenue) . 12.8 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 57.3 158.7 123.3 Fixed-broadband subscriptions (per 100 people) 2.4 14.7 28.0 Households with a computer (%) 32.0 62.1 80.3 Households with Internet access at home (%) 13.3 52.0 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) Usage Int'l. voice traffic, total (minutes/subscription/month) . <td< td=""><td></td><td></td><td></td><td></td></td<>						
Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.6 2.4 2.6 Telecommunications investment (% of revenue) 12.8 16.						
Telecommunications revenue (% of GDP) 2.6 2.4 2.6 Telecommunications investment (% of revenue) 12.8 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 24.4 22.6 39.9 Mobile-cellular telephone subscriptions (per 100 people) 57.3 158.7 123.3 Fixed-broadband subscriptions (per 100 people) 2.4 14.7 28.0 Households with a computer (%) 32.0 62.1 80.3 Households with Internet access at home (%) 13.3 52.0 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month)						
Telecommunications investment (% of revenue) 12.8 16.8		2.6	2.4	2.6		
Access Fixed-telephone subscriptions (per 100 people) 24.4 22.6 39.9 Mobile-cellular telephone subscriptions (per 100 people) 57.3 158.7 123.3 Fixed-broadband subscriptions (per 100 people) 2.4 14.7 28.0 14.0 28.0 24.1 24.1 26.1 2	·					
Int'l. voice traffic, total (minutes/subscription/month) 80.6 188.0 Individuals using the Internet (%) 80.6 80.6 Quality Population covered by a mobile-cellular network (%) 94 100 International Internet bandwidth (bit/s per Internet user) 1,788 48,065 131,821 Affordability Fixed-telephone sub-basket (\$ a month)	Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	57.3 2.4 32.0	158.7 14.7 62.1	123.3 28.0 80.3		
Int'l. voice traffic, total (minutes/subscription/month) 80.6 188.0 Individuals using the Internet (%) 80.6 80.6 Quality Population covered by a mobile-cellular network (%) 94 100 International Internet bandwidth (bit/s per Internet user) 1,788 48,065 131,821 Affordability Fixed-telephone sub-basket (\$ a month)	Usage					
Domestic mobile traffic (minutes/subscription/month) 90.1 188.0 Individuals using the Internet (%) 17.7 64.7 80.6 Quality Population covered by a mobile-cellular network (%) 94 100 International Internet bandwidth (bit/s per Internet user) 1,788 48,065 131,821 Affordability 3.4 23.7 Mobile-cellular sub-basket (\$ a month) 33.0 18.7 Fixed-broadband sub-basket (\$ a month) 40.3 26.9 Trade ICT goods exports (% of total goods exports) 0.2 0.2 8.2 ICT goods imports (% of total goods imports) 11.6 8.5 10.5 ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67	5					
Quality Population covered by a mobile-cellular network (%) 94 100 International Internet bandwidth (bit/s per Internet user) 1,788 48,065 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 3.4 23.7 Mobile-cellular sub-basket (\$ a month) 33.0 18.7 Fixed-broadband sub-basket (\$ a month) 40.3 26.9 Trade ICT goods exports (% of total goods exports) 0.2 0.2 8.2 ICT goods imports (% of total goods imports) 11.6 8.5 10.5 ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67	Domestic mobile traffic (minutes/subscription/month)		90.1	188.0		
Population covered by a mobile-cellular network (%) 94 100 International Internet bandwidth (bit/s per Internet user) 1,788 48,065 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 3.4 23.7 Mobile-cellular sub-basket (\$ a month) 33.0 18.7 Fixed-broadband sub-basket (\$ a month) 40.3 26.9 Trade ICT goods exports (% of total goods exports) 0.2 0.2 8.2 ICT goods imports (% of total goods imports) 11.6 8.5 10.5 ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67	Individuals using the Internet (%)	17.7	64.7	80.6		
Population covered by a mobile-cellular network (%) 94 100 International Internet bandwidth (bit/s per Internet user) 1,788 48,065 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 3.4 23.7 Mobile-cellular sub-basket (\$ a month) 33.0 18.7 Fixed-broadband sub-basket (\$ a month) 40.3 26.9 Trade ICT goods exports (% of total goods exports) 0.2 0.2 8.2 ICT goods imports (% of total goods imports) 11.6 8.5 10.5 ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67	Ouality					
Affordability 3.4 23.7 Mobile-cellular sub-basket (\$ a month) 33.0 18.7 Fixed-broadband sub-basket (\$ a month) 40.3 26.9 Trade ICT goods exports (% of total goods exports) 0.2 0.2 8.2 ICT goods imports (% of total goods imports) 11.6 8.5 10.5 ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67	Population covered by a mobile-cellular network (%)					
Fixed-telephone sub-basket (\$ a month) 3.4 23.7 Mobile-cellular sub-basket (\$ a month) 33.0 18.7 Fixed-broadband sub-basket (\$ a month) 40.3 26.9 Trade ICT goods exports (% of total goods exports) 0.2 0.2 8.2 ICT goods imports (% of total goods imports) 11.6 8.5 10.5 ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67	International Internet bandwidth (bit/s per Internet user)	1,788	48,065	131,821		
Mobile-cellular sub-basket (\$ a month) 33.0 18.7 Fixed-broadband sub-basket (\$ a month) 40.3 26.9 Trade ICT goods exports (% of total goods exports) 0.2 0.2 8.2 ICT goods imports (% of total goods imports) 11.6 8.5 10.5 ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67	•					
Fixed-broadband sub-basket (\$ a month) 40.3 26.9 Trade ICT goods exports (% of total goods exports) 0.2 0.2 8.2 ICT goods imports (% of total goods imports) 11.6 8.5 10.5 ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67	·					
Trade 0.2 0.2 8.2 ICT goods exports (% of total goods exports) 11.6 8.5 10.5 ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67						
ICT goods exports (% of total goods exports) 0.2 0.2 8.2 ICT goods imports (% of total goods imports) 11.6 8.5 10.5 ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67	rixed-bioadbaild Sub-basket (\$\phi\$ a month)		40.3	20.9		
ICT goods imports (% of total goods imports) 11.6 8.5 10.5 ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67		0.2	0.2	82		
ICT service exports (% of total service exports) 31.1 42.1 30.3 Applications Online service index (0-1, 1=highest presence) 0.58 0.55 0.67						
Online service index (0-1, 1=highest presence) 0.58 0.55 0.67						
Online service index (0-1, 1=highest presence) 0.58 0.55 0.67	Applications					
		0.58	0.55	0.67		
				928.0		

Armenia

Europe & Central Asia	Lower m	wer middle	Lower
	Counti	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	3	3	2,879
Urban population (% of total)	64	63	39
GNI per capita, World Bank Atlas method (\$)	1,520	3,780	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	12.3	3.0	5.
Adult literacy rate (% ages 15 and older)	99	100	73
Gross primary, secondary, tertiary school enrollment (%)	73		6
Sector structure			
Separate telecommunications/ICT regulator	No	Yes	
Status of main fixed-line telephone operator	Mixed	Private	
Level of competition (competition, partial comp., monopoly)		0	
International gateway(s)	М	C	
Mobile telephone service	P	C C	
Internet service	C		
Foreign ownership (not allowed, restricted, allowed)	d) C	A A	
Reg. treatment of VoIP (banned, closed, no framework, allowe	a) C	А	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.0	3.9	2
Telecommunications investment (% of revenue)	23.6	21.1	19.
Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	19.7 10.5 0.1 5.5 ^a 2.9	18.9 115.9 9.1 51.5 46.6	4. 87. 2. 17. 18.
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		19.8	8.
Domestic mobile traffic (minutes/subscription/month)	58.0	188.3	147.
Individuals using the Internet (%)	5.3	46.3	22.
Quality (%)	0.5	100	0
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	85 459	100 44,534	9. 10,61
Affordability			
Fixed-telephone sub-basket (\$ a month)		2.7	5.
Mobile-cellular sub-basket (\$ a month)		8.2	7.
Fixed-broadband sub-basket (\$ a month)		11.0	18.
Trade			
ICT goods exports (% of total goods exports)	0.3	0.2	6.
ICT goods imports (% of total goods imports)	3.6	3.0	8.
ICT service exports (% of total service exports)	13.7	11.1	51.
Applications			
Online service index (0-1, 1=highest presence)	0.42	0.61	0.2
Secure Internet servers (per million people)	1.3	40.9	5.

Aruba

	Country data		High- income
-	2005	2014	group 2014
Economic and social context			
Population (millions)	0.10	0.10	1,399
Urban population (% of total)	45	42	81
GNI per capita, World Bank Atlas method (\$)			38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.0		1.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	97 84	97 86	99 95
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	M	
Mobile telephone service	М	M	
Internet service	М	M	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	5.6		2.6
Telecommunications investment (% of revenue)	10.8		16.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	38.2	33.8	39.9
Mobile-cellular telephone subscriptions (per 100 people)	103.4	135.1	123.3
Fixed-broadband subscriptions (per 100 people)	12.3	18.7	28.0
Households with a computer (%)	45.0	73.1	80.3
Households with Internet access at home (%)	36.7	69.6	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			188.0
Individuals using the Internet (%)	25.4	83.8	80.6
Quality Population covered by a mobile-cellular network (%)	90		100
International Internet bandwidth (bit/s per Internet user)	7,084	67,578	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)			23.7
Mobile-cellular sub-basket (\$ a month)			18.7
Fixed-broadband sub-basket (\$ a month)			26.9
Trade			
ICT goods exports (% of total goods exports)		0.4	8.2
ICT goods imports (% of total goods imports)	10.2	5.3	10.5
ICT service exports (% of total service exports)	10.2	14.0	30.3
Applications Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	289.9	338.4	928.0
cocare internet convers (per minion people)	200.0	550.4	520.0

Australia

	Country data		High- income
	2005	2014	group 2014
Economic and social context			
Population (millions)	20	23	1,399
Urban population (% of total)	88	89	81
GNI per capita, World Bank Atlas method (\$)	30,320	64,680	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.4	2.7	1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)	112	115	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	С	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	А	
Sector efficiency and capacity	2.0	2.5	2.6
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.8 16.7	2.5 20.5	16.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	49.3 89.8 9.8	38.9 131.2 25.8	39.9 123.3 28.0
Households with a computer (%)	67.0	85.6	80.3
Households with Internet access at home (%)	56.0	86.9	81.0
, ,			
Usage Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			188.0
Individuals using the Internet (%)	63.0	84.6	80.6
Quality Population covered by a mobile-cellular network (%)	98	99	100
International Internet bandwidth (bit/s per Internet user)	7,794	75,069	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		30.8	23.7
Mobile-cellular sub-basket (\$ a month)		19.0	18.7
Fixed-broadband sub-basket (\$ a month)		53.1	26.9
Trade			
ICT goods exports (% of total goods exports)	1.7	0.9	8.2
ICT goods imports (% of total goods imports)	11.8	8.9	10.5
ICT service exports (% of total service exports)	16.1	18.2	30.3
Applications	0.01	0.00	0.07
Online service index (0-1, 1=highest presence)	0.81	0.93	0.67
Secure Internet servers (per million people)	498.1	1,348.6	928.0

Austria

	Country data		High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	8	9	1,399
Urban population (% of total)	66	66	81
GNI per capita, World Bank Atlas method (\$)	38,500	50,390	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.7	1.0	1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)	88	95	95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	С	
Mobile telephone service	М	С	
Internet service	М	С	
Foreign ownership (not allowed, restricted, allowed)	Α	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)) A	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.4	1.3	2.6
Telecommunications investment (% of revenue)	12.7	12.7	16.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	45.4	38.3	39.9
Mobile-cellular telephone subscriptions (per 100 people)	105.2	151.9	123.3
Fixed-broadband subscriptions (per 100 people)	14.2	27.5	28.0
Households with a computer (%)	63.1	83.7	80.3
Households with Internet access at home (%)	46.7	81.0	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	16.1		
Domestic mobile traffic (minutes/subscription/month)	107.5	141.5	188.0
Individuals using the Internet (%)	58.0	81.0	80.6
Quality			
Population covered by a mobile-cellular network (%)	99	99	100
International Internet bandwidth (bit/s per Internet user)	11,430	79,636	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		26.5	23.7
Mobile-cellular sub-basket (\$ a month)		13.6	18.7
Fixed-broadband sub-basket (\$ a month)		25.4	26.9
Trade			
ICT goods exports (% of total goods exports)	5.5	4.2	8.2
ICT goods imports (% of total goods imports)	7.7	5.2	10.5
ICT service exports (% of total service exports)	24.8	31.4	30.3
Applications			
Applications Online service index (0-1, 1=highest presence)	0.74	0.75	0.67
Secure Internet servers (per million people)	231.7		928.0
occure interner servers (her million heahie)	231.1	1,201.1	320.0

Azerbaijan

Europe & Central Asia	Upper n	pper middle ir			
	Count	Country data		Country data	
	2005	2005 2014	group 2014		
Economic and social context					
Population (millions)	8	10	2,363		
Urban population (% of total)	52	54	62		
GNI per capita, World Bank Atlas method (\$)	1,270	7,590	7,873		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	12.7	8.4	6.0		
Adult literacy rate (% ages 15 and older)	100	100	94		
Gross primary, secondary, tertiary school enrollment (%)	72	71	80		
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	P	С			
Internet service	С	C			
Foreign ownership (not allowed, restricted, allowed)	. R	A			
Reg. treatment of VoIP (banned, closed, no framework, allowe	d) No	С			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	3.6	2.4	2		
Telecommunications investment (% of revenue)	6.8	18.2	19.		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	12.8	18.9	17.		
Mobile-cellular telephone subscriptions (per 100 people)	26.2	110.9	101.		
Fixed-broadband subscriptions (per 100 people)	0.0	19.8	11.		
Households with a computer (%)	7.3	51.7	46.		
Households with Internet access at home (%)	6.3	54.6	45.		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	7.6	6.0	1.		
Domestic mobile traffic (minutes/subscription/month)	3.1	192.7	293.		
Individuals using the Internet (%)	8.0	61.0	47.		
Quality					
Population covered by a mobile-cellular network (%)	99	100	9		
International Internet bandwidth (bit/s per Internet user)	436	32,219	21,25		
Affordability					
Fixed-telephone sub-basket (\$ a month)		2.5	8.		
Mobile-cellular sub-basket (\$ a month)		10.5	12.		
Fixed-broadband sub-basket (\$ a month)		12.7	17.		
Trade					
ICT goods exports (% of total goods exports)	0.0	0.0	18.		
ICT goods imports (% of total goods imports)	4.6	2.4	15.		
ICT service exports (% of total service exports)	38.8	12.9	27.		
Applications					
Online service index (0-1, 1=highest presence)	0.46	0.43	0.3		
Secure Internet servers (per million people)	0.5	13.5	23.		

Bahamas, The

	Count	Country data		Country data		Country data		Country data	High- income group
	2005	2014	2014						
Economic and social context									
Population (millions)	0.33	0.38	1,399						
Urban population (% of total)	82	83	81						
GNI per capita, World Bank Atlas method (\$)	23,510	20,980	38,317						
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.3	0.0	1.1						
Adult literacy rate (% ages 15 and older)			99						
Gross primary, secondary, tertiary school enrollment (%)			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)									
International gateway(s)	M	С							
Mobile telephone service	М	М							
Internet service	С	С							
Foreign ownership (not allowed, restricted, allowed)	Α	R							
Reg. treatment of VoIP (banned, closed, no framework, allowed) C	Α							
Sector efficiency and capacity									
Telecommunications revenue (% of GDP)			2.6						
Telecommunications investment (% of revenue)	••	••	16.8						
Sector performance									
Access	40.4	200	20.0						
Fixed-telephone subscriptions (per 100 people)	40.4	36.0	39.9 123.3						
Mobile-cellular telephone subscriptions (per 100 people)	69.2 4.1	71.4 <i>4.1</i>	28.0						
Fixed-broadband subscriptions (per 100 people)			28.0 80.3						
Households with a computer (%)									
Households with Internet access at home (%)		••	81.0						
Usage									
Int'l. voice traffic, total (minutes/subscription/month)									
Domestic mobile traffic (minutes/subscription/month)			188.0						
Individuals using the Internet (%)	25.0	76.9	80.6						
Quality									
Population covered by a mobile-cellular network (%)	95	100	100						
International Internet bandwidth (bit/s per Internet user)	1,094	3,738	131,821						
Affordability									
Fixed-telephone sub-basket (\$ a month)		16.3	23.7						
Mobile-cellular sub-basket (\$ a month)		17.5	18.7						
Fixed-broadband sub-basket (\$ a month)		30.0	26.9						
Trade									
ICT goods exports (% of total goods exports)	0.3	0.3	8.2						
ICT goods imports (% of total goods imports)	3.2	2.9	10.5						
ICT service exports (% of total service exports)			30.3						
Applications									
Online service index (0-1, 1=highest presence)	0.49	0.34	0.67						
Secure Internet servers (per million people)	148.8	255.8	928.0						

Bahrain

	Count	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	0.87	1	1,399
Urban population (% of total)	88	89	81
GNI per capita, World Bank Atlas method (\$)	16,970	21,050	38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	5.3	4.5	1.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	87	95	99 95
Sector structure Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	Р	Р	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	С	Α	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.9	3.4	2.6
Telecommunications investment (% of revenue)	14.9	15.9	16.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	22.0	21.2	39.9
Mobile-cellular telephone subscriptions (per 100 people)	87.2	173.3	123.3
Fixed-broadband subscriptions (per 100 people)	2.4	21.4	28.0
Households with a computer (%) Households with Internet access at home (%)	44.0 32.0	94.6 81.0	80.3 81.0
nouseholds with internet access at nome (%)	32.0	61.0	61.0
Usage Int'l. voice traffic, total (minutes/subscription/month)		114.6	
Domestic mobile traffic (minutes/subscription/month)	 117.3	236.8	188.0
Individuals using the Internet (%)	21.3	91.0	80.6
Overlife			
Quality Population covered by a mobile-cellular network (%)	100	100	100
International Internet bandwidth (bit/s per Internet user)	2,183	49,054	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		4.8	23.7
Mobile-cellular sub-basket (\$ a month)		12.0	18.7
Fixed-broadband sub-basket (\$ a month)		26.6	26.9
Trade			
ICT goods exports (% of total goods exports)	0.1	0.6	8.2
ICT goods imports (% of total goods imports)	2.1	3.3	10.5
ICT service exports (% of total service exports)	25.1	21.6	30.3
Applications			
Online service index (0-1, 1=highest presence)	0.57	0.94	0.67
Secure Internet servers (per million people)	40.4	177.0	928.0

Bangladesh

South Asia	Lower-m	wer-middle-incon		
	Counti	Country data		
	2005	2014	group 2014	
Economic and social context				
Population (millions)	143	159	2,879	
Urban population (% of total)	27	34	39	
GNI per capita, World Bank Atlas method (\$)	540	1,080	2,012	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.9	6.1	5.9	
Adult literacy rate (% ages 15 and older)	47	60	73	
Gross primary, secondary, tertiary school enrollment (%)	51	59	67	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Public	Public		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)	M	M		
Mobile telephone service	С	M		
Internet service	С	M		
Foreign ownership (not allowed, restricted, allowed)	Α	Α		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	ed) B	С		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	1.3	2.2	2.3	
Telecommunications investment (% of revenue)	••	45.9	19.8	
Sector performance				
Access	0.7	0.7	4.0	
Fixed-telephone subscriptions (per 100 people)	0.7	0.7	4.0	
Mobile-cellular telephone subscriptions (per 100 people)	6.3	75.9	87.1	
Fixed-broadband subscriptions (per 100 people)	0.0	1.2	2.4	
Households with laterant access at home (%)	1.4 0.2	6.9 6.5	17.0 18.3	
Households with Internet access at home (%)	0.2	0.0	10.3	
Usage		10.0	0.0	
Int'l. voice traffic, total (minutes/subscription/month)		18.6	8.8	
Domestic mobile traffic (minutes/subscription/month)		145.7	147.6	
Individuals using the Internet (%)	0.2	9.6	22.6	
Quality				
Population covered by a mobile-cellular network (%)	80	99	94	
International Internet bandwidth (bit/s per Internet user)	173	5,925	10,618	
Affordability				
Fixed-telephone sub-basket (\$ a month)		2.6	5.0	
Mobile-cellular sub-basket (\$ a month)		1.4	7.7	
Fixed-broadband sub-basket (\$ a month)		4.4	18.6	
Trade				
ICT goods exports (% of total goods exports)	0.1	0.0	6.2	
ICT goods imports (% of total goods imports)	6.2	3.4	8.0	
ICT service exports (% of total service exports)	18.6	27.0	51.1	
Applications				
Online service index (0-1, 1=highest presence)	0.29	0.35	0.24	
Secure Internet servers (per million people)	0.0	0.9	5.9	

Barbados

		Country data		
		2014	group 2014	
Formania and assist contact	2005	2014	2014	
Economic and social context Population (millions)	0.27	0.28	1,399	
Urban population (% of total)	33		81	
GNI per capita, World Bank Atlas method (\$)	13,620		38,317	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.2	-1.5	1.1	
Adult literacy rate (% ages 15 and older)			99	
Gross primary, secondary, tertiary school enrollment (%)	94	96	95	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)	P	М		
Mobile telephone service	C	C		
Internet service	A	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)	4.6		2.6	
Telecommunications investment (% of revenue)	14.0		16.8	
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 (%)	49.3 75.4 11.7 42.6 37.2	52.9 106.8 27.0 70.0 70.5	39.9 123.3 28.0 80.3 81.0	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)				
Domestic mobile traffic (minutes/subscription/month)			188.0	
Individuals using the Internet (%)	52.5	76.7	80.6	
Quality				
Population covered by a mobile-cellular network (%)	100		100	
International Internet bandwidth (bit/s per Internet user)	3,481	113,985	131,821	
Affordability		20.0	00.7	
Fixed-telephone sub-basket (\$ a month)		22.0	23.7	
Mobile-cellular sub-basket (\$ a month)		21.7	18.7	
Fixed-broadband sub-basket (\$ a month)	••	42.5	26.9	
Trade ICT goods exports (% of total goods exports)	4.9	0.7	8.2	
ICT goods imports (% of total goods imports)	7.8		10.5	
ICT service exports (% of total service exports)	15.3		30.3	
Applications				
Online service index (0-1, 1=highest presence)	0.57	0.22	0.67	
Secure Internet servers (per million people)	204.4	405.8	928.0	

Belarus

Europe & Central Asia	Upper middle inco		income
			Upper middle-
	Count	ry data	income group
	2005	2014	2014
Economic and social context			
Population (millions)	10	9	2,361
Urban population (% of total)	72	76	62
GNI per capita, World Bank Atlas method (\$)	2,820	7,340	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	7.6	5.0	6.0
Adult literacy rate (% ages 15 and older)			94
Gross primary, secondary, tertiary school enrollment (%)		100	80
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)	M	М	
Mobile telephone service	P	М	
Internet service	С	М	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) B	А	
Sector efficiency and capacity	1.0	17	0.4
Telecommunications revenue (% of GDP)	1.3 <i>41.</i> 3	1.7 26.8	2.4
Telecommunications investment (% of revenue)	41.3	20.8	19.7
Sector performance			
Access	24.0	40.5	17.0
Fixed-telephone subscriptions (per 100 people)	34.0 42.4	48.5 122.5	17.6 101.4
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	0.0	28.8	101.4
Households with a computer (%)	9.6	59.9	46.0
Households with a computer (%) Households with Internet access at home (%)	7.0	57.1	45.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	6.6	5.6	1.6
Domestic mobile traffic (minutes/subscription/month)	116.2	168.2	293.4
Individuals using the Internet (%)	19.7	59.0	47.7
Quality			
Population covered by a mobile-cellular network (%)	90	100	99
International Internet bandwidth (bit/s per Internet user)	1,356	142,536	21,253
Affordability			
Fixed-telephone sub-basket (\$ a month)		1.0	8.9
Mobile-cellular sub-basket (\$ a month)		7.0	12.4
Fixed-broadband sub-basket (\$ a month)		8.8	17.3
Trade			
ICT goods exports (% of total goods exports)	1.0	0.7	18.0
ICT goods imports (% of total goods imports)	2.4	3.6	15.1
ICT service exports (% of total service exports)	15.0	20.2	27.4
Applications			
Online service index (0-1, 1=highest presence)	0.52	0.32	0.37
Secure Internet servers (per million people)	0.5	44.6	23.3

Belgium

	Country data		Country data	Country data	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	10	11	1,399		
Urban population (% of total)	97	98	81		
GNI per capita, World Bank Atlas method (\$)	37,630	,	38,317		
GDP growth, 2000–05 and 2005–14 (avg. annual %)	1.8	0.9	1.1		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	93	 118	99 95		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Mixed	Mixed			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	M	С			
Mobile telephone service	M	С			
Internet service	M	С			
Foreign ownership (not allowed, restricted, allowed)	Α	Α			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	С			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.9	1.6	2.6		
Telecommunications investment (% of revenue)	11.6		16.8		
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 (%)	45.6 91.4 19.1 57.0 50.2	36.0	39.9 123.3 28.0 80.3 81.0		
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 70.2 55.8		 188.0 80.6		
Quality					
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	99 20,038	100 263,915	100 131,821		
Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		36.5 34.2 33.1	23.7 18.7 26.9		
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	3.9 4.6 34.5	1.7 2.8 45.9	8.2 10.5 30.3		
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.68 117.9		0.67 928.0		

Belize

Latin America & Caribbean	Upper middle inco		income
	Count	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	0.28	0.35	2,361
Urban population (% of total)	46	44	62
GNI per capita, World Bank Atlas method (\$)	3,680	4,350	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.7	2.4	6.0
Adult literacy rate (% ages 15 and older)			94
Gross primary, secondary, tertiary school enrollment (%)	79	81	80
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)	M	М	
Mobile telephone service	M	С	
Internet service	М	C	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	R) No	R C	
reg. treatment of voir (ballieu, closed, no framework, allowed) 110		
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.7	4.6	2.4
Telecommunications investment (% of revenue)	23.8	19.4	19.7
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	12.4	6.7	17.6
Mobile-cellular telephone subscriptions (per 100 people)	35.3 1.8	50.7 3.0	101.4 11.7
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)		31.0	46.0
Households with Internet access at home (%)		21.0	45.3
Usage		34.3	1.6
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	 15.3	34.3	293.4
Individuals using the Internet (%)	17.0	38.7	293.4 47.7
marviduals using the internet (w)	11.0	30.1	71.1
Quality			00
Population covered by a mobile-cellular network (%)	2.020	44 000	99
International Internet bandwidth (bit/s per Internet user)	2,920	41,829	21,253
Affordability			
Fixed-telephone sub-basket (\$ a month)		20.9	8.9
Mobile-cellular sub-basket (\$ a month)		31.3	12.4
Fixed-broadband sub-basket (\$ a month)		50.0	17.3
Trade			
ICT goods exports (% of total goods exports)	0.0	0.3	18.0
ICT goods imports (% of total goods imports)	5.9	2.8	15.1
ICT service exports (% of total service exports)	12.3	11.7	27.4
Applications			
Online service index (0-1, 1=highest presence)	0.41	0.38	0.37
Secure Internet servers (per million people)	264.8	210.4	23.3

Benin

Sub-Saharan Africa Low income

	Countr	Country data		Country data	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	8	11	622		
Urban population (% of total)	40	44	30		
GNI per capita, World Bank Atlas method (\$)	530	810	626		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.0	4.1	6.1		
Adult literacy rate (% ages 15 and older)	29		57		
Gross primary, secondary, tertiary school enrollment (%)	54	68	59		
Sector structure	.,	.,			
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	M	M			
Mobile telephone service	M	C			
Internet service	M	C			
Foreign ownership (not allowed, restricted, allowed)	No	No			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	В			
Sector efficiency and capacity	1.4	6.0			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	35.0	40.5			
Sector performance Access					
Fixed-telephone subscriptions (per 100 people)	0.9	1.8	0.9		
Mobile-cellular telephone subscriptions (per 100 people)	7.3	101.7	57.2		
Fixed-broadband subscriptions (per 100 people)	0.0	0.4	0.2		
Households with a computer (%)	1.6	4.8	4.5		
Households with Internet access at home (%)	0.0	3.5	4.2		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)		6.2			
Domestic mobile traffic (minutes/subscription/month)		33.4	39.8		
Individuals using the Internet (%)	1.3	5.3	6.3		
Quality					
Population covered by a mobile-cellular network (%)	43	99			
International Internet bandwidth (bit/s per Internet user)	452	2,839	4,196		
Affordability					
Fixed-telephone sub-basket (\$ a month)		12.8	8.7		
Mobile-cellular sub-basket (\$ a month)		13.8	11.7		
Fixed-broadband sub-basket (\$ a month)		50.6	44.9		
Trade					
ICT goods exports (% of total goods exports)	0.0	0.0			
ICT goods imports (% of total goods imports)	2.9	1.6	2.7		
ICT service exports (% of total service exports)	20.1	17.2	21.5		
Applications	0.46	0.4.	0.4.		
Online service index (0-1, 1=highest presence)	0.19	0.11	0.11		
Secure Internet servers (per million people)	0.1	2.2	1.2		

Bermuda

	Count	Country data		Country data		Country data	
	2005	2014	group 2014				
Economic and social context							
Population (millions)	0.06	0.07	1,399				
Urban population (% of total)	100	100	81				
GNI per capita, World Bank Atlas method (\$)	,	106,140	38,317				
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.3	-1.6	1.1				
Adult literacy rate (% ages 15 and older)			99				
Gross primary, secondary, tertiary school enrollment (%)	71	66	95				
Sector structure							
Separate telecommunications/ICT regulator	No	No					
Status of main fixed-line telephone operator	Public	Public					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)	М	М					
Mobile telephone service	M	М					
Internet service	M	М					
Foreign ownership (not allowed, restricted, allowed)	No	No					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	ed) B	В					
Sector efficiency and capacity	2.0		0.0				
Telecommunications revenue (% of GDP)	3.9		2.6				
Telecommunications investment (% of revenue)	11.3		16.8				
Sector performance							
Access	04.0	44.7	00.0				
Fixed-telephone subscriptions (per 100 people)	81.8	44.7	39.9				
Mobile-cellular telephone subscriptions (per 100 people)	82.2	90.9	123.3				
Fixed-broadband subscriptions (per 100 people)	28.8 67.9	61.7	28.0				
Households with later at access at home (%)		94.0	80.3				
Households with Internet access at home (%)	58.8	85.0	81.0				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)							
Domestic mobile traffic (minutes/subscription/month)	194.8		188.0				
Individuals using the Internet (%)	65.4	96.8	80.6				
Quality							
Population covered by a mobile-cellular network (%)	98		100				
International Internet bandwidth (bit/s per Internet user)	10,554		131,821				
Affordability							
Fixed-telephone sub-basket (\$ a month)			23.7				
Mobile-cellular sub-basket (\$ a month)			18.7				
Fixed-broadband sub-basket (\$ a month)			26.9				
Trade							
ICT goods exports (% of total goods exports)		9.6	8.2				
ICT goods imports (% of total goods imports)		2.9	10.5				
ICT service exports (% of total service exports)	37.2	41.4	30.3				
Applications							
Online service index (0-1, 1=highest presence)			0.67				
Secure Internet servers (per million people)	1,699.0	6,489.6	928.0				

Bhutan

South Asia	Lower m	income	
	Countr	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	0.65	0.77	2,879
Urban population (% of total)	31	38	39
GNI per capita, World Bank Atlas method (\$)	1,220	2,390	2,012
GDP growth, 2000–05 and 2005–14 (avg. annual %)	7.9	7.7	5.9
Adult literacy rate (% ages 15 and older)	53		73
Gross primary, secondary, tertiary school enrollment (%)	54	69	67
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	M M	
Mobile telephone service Internet service	IVI P	M	
Foreign ownership (not allowed, restricted, allowed)	r R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowe		A	
Sector officioney and conscity			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.0	2.7	2.3
Telecommunications investment (% of revenue)	81.1	35.1	19.8
<u> </u>			
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	5.1	3.1	4.0
Mobile-cellular telephone subscriptions (per 100 people)	5.5	82.1	87.1
Fixed-broadband subscriptions (per 100 people)		3.3	2.4
Households with a computer (%)	2.6	21.9	17.0
Households with Internet access at home (%)	1.2	26.3	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		21.3	8.8
Domestic mobile traffic (minutes/subscription/month)	56.1	106.9	147.6
Individuals using the Internet (%)	3.8	34.4	22.6
Quality			
Population covered by a mobile-cellular network (%)	5	100	94
International Internet bandwidth (bit/s per Internet user)	240	2,546	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		1.3	5.0
Mobile-cellular sub-basket (\$ a month)		2.8	7.7
Fixed-broadband sub-basket (\$ a month)	••	8.5	18.6
Trade			
ICT goods exports (% of total goods exports)	0.9	15.9	6.2
ICT goods imports (% of total goods imports)	5.3	2.4	8.0
ICT service exports (% of total service exports)	5.7	2.0	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.31	0.24	0.24
Secure Internet servers (per million people)		14.4	5.9

Bolivia

Latin America & Caribbean	rica & Caribbean Lower middle income		
	Count	Country data	
	2005	2014	2014
Economic and social context			
Population (millions)	9	11	2,879
Urban population (% of total)	64	68	39
GNI per capita, World Bank Atlas method (\$)	1,030	2,910	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.1	5.0	5.9
Adult literacy rate (% ages 15 and older)	91	94	73
Gross primary, secondary, tertiary school enrollment (%)	79		67
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Private	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	М	
Mobile telephone service	М	М	
Internet service	М	М	
Foreign ownership (not allowed, restricted, allowed)	R	No	
Reg. treatment of VoIP (banned, closed, no framework, allowe	ed) B	A	
Sector efficiency and capacity	F.0		0.0
Telecommunications revenue (% of GDP)	5.6	4.1	2.3
Telecommunications investment (% of revenue)	3.8	21.1	19.8
Sector performance			
Access	6.9	8.1	4.0
Fixed-telephone subscriptions (per 100 people)	25.9	96.3	87.1
Mobile-cellular telephone subscriptions (per 100 people)	0.1	1.6	2.4
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	12.1	34.9	17.0
Households with a computer (%)	3.5	17.0	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		4.8	8.8
Domestic mobile traffic (minutes/subscription/month)	20.8	32.3	147.6
Individuals using the Internet (%)	5.2	39.0	22.6
Quality			
Population covered by a mobile-cellular network (%)	46	100	94
International Internet bandwidth (bit/s per Internet user)	814	15,502	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		24.1	5.0
Mobile-cellular sub-basket (\$ a month)		11.4	7.7
Fixed-broadband sub-basket (\$ a month)		25.0	18.6
Trade			
ICT goods exports (% of total goods exports)	0.0	0.0	6.2
ICT goods imports (% of total goods imports)	3.9	2.7	8.0
ICT service exports (% of total service exports)	6.6	8.5	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.49	0.39	0.24
Secure Internet servers (per million people)	2.4	12.9	5.9

Bosnia and Herzegovina

Country Indicates Country Indicates Country Indicates Country Indicates	Europe & Central Asia	Jpper n	niddle	income
Economic and social context Population (millions) Urban population (% of total) Self growth, 2000–05 and 2005–14 (avg. annual %) GNI per capita, World Bank Atlas method (\$) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunication (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with liternet access at home (%) Usage Int'I. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) A constructive Sector performatice Access Int'I. voice traffic, total (minutes/subscription/month) Constructive Access Individuals using the Internet (%) Access Access Int'I. voice traffic, total (minutes/subscription/month) Constructive internet (%) Access Access Individuals using the Internet (%) Access Access Individuals using the Internet (%) Access Access Access Individuals using the Internet (%) Access Acces		Count	rv data	Upper middle- income
Economic and social context Population (millions)			-	group 2014
Population (millions) Urban population (% of total) Series of GNI per capita, World Bank Atlas method (\$) CNI per capita, World Bank Atlas method (\$) CN	Fconomic and social context	2000		
Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %) GOP growth, 2000-05 and 2005-14 (avg. annual %) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications (ICT regulator 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) M M M Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) 36.5 22.6 19. Sector performance Access Fixed-telephone subscriptions (per 100 people) 41.1 91.3 101. Mobile-cellular telephone subscriptions (per 100 people) 41.1 Households with a computer (%) 20.0 45.0 46. Households with Internet access at home (%) 6.2 50.0 45. Usage Int'I. voice traffic, total (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47.		4	4	2,361
GDP growth, 2000-05 and 2005-14 (avg. annual %) 5.0 1.6 6. Adult literacy rate (% ages 15 and older) 97 98 98 Gross primary, secondary, tertiary school enrollment (%)		39	40	62
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Separate telecommunications pertator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Seroign 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) Fixed-broadband subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Mobile-cellular telephones ubscriptions (per 100 people) Usage Int'I. voice traffic, total (minutes/subscription/month) Jomestic mobile traffic (minutes/subscription/month) Jomestic mobile traffic (minutes/subscription/month) Quality	GNI per capita, World Bank Atlas method (\$)	2,970	4,780	7,873
Sector structure Separate telecommunications/ICT regulator Setup of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Capacity Usage Int'l. voice traffic, total (minutes/subscription/month) Jac. 36.3 Jac. 29.3 Jac. 47. Capacity Jac. 36.3 Jac. 36.28 Jac. 36.3 Jac.	GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.0	1.6	6.0
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 Mobile telephone service Internet service Mobile telephone service Mobile telephone 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	Adult literacy rate (% ages 15 and older)	97	98	94
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) M M M M M Mobile telephone service M M C Internet service M M C Foreign ownership (not allowed, restricted, allowed) A A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B A A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 6.1 4.6 2. Telecommunications investment (% of revenue) 36.5 22.6 19. Sector performance Access Fixed-telephone subscriptions (per 100 people) 41.1 91.3 101. Mobile-cellular telephone subscriptions (per 100 people) 41.1 191.3 101. Households with a computer (%) 20.0 45.0 46. Households with a computer (%) 20.0 45.0 46. Usage Int'I. voice traffic, total (minutes/subscription/month) . 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47.	Gross primary, secondary, tertiary school enrollment (%)			80
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Lsage Int'I. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Quality M M M M M M M M M M A A A A A A A A B B A C C C 19. C Sector performance Access Fixed-broadband subscriptions (per 100 people) 41.1 91.3 101. 11. 11. 12. 12. 13. 14. 14. 15.3 15.3 15.3 16.8 16.8 17. 18. 18. 18. 18. 18. 18. 1	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service M P Internet service M C Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications revenue (% of GDP) 6.1 4.6 2. Telecommunications investment (% of revenue) 36.5 22.6 19. Sector performance Access Fixed-telephone subscriptions (per 100 people) 17. Mobile-cellular telephone subscriptions (per 100 people) 18. Auc. 19. A	Separate telecommunications/ICT regulator		Yes	
International gateway(s) M M P Mobile telephone service M P Internet service M P Foreign ownership (not allowed, restricted, allowed) A A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications revenue (% of GDP) 6.1 4.6 2. Telecommunications investment (% of revenue) 36.5 22.6 19. Sector performance Access Fixed-telephone subscriptions (per 100 people) 25.0 22.2 17. Mobile-cellular telephone subscriptions (per 100 people) 41.1 91.3 101. Fixed-broadband subscriptions (per 100 people) 0.4 14.1 11. Households with a computer (%) 20.0 45.0 46. Households with Internet access at home (%) 6.2 50.0 45. Usage Int'l. voice traffic, total (minutes/subscription/month) . 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47.	·	Public	Mixed	
Mobile telephone service M C C Foreign ownership (not allowed, restricted, allowed) A A A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B A A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 6.1 4.6 2. Telecommunications investment (% of revenue) 36.5 22.6 19. Sector performance Access Fixed-telephone subscriptions (per 100 people) 25.0 22.2 17. Mobile-cellular telephone subscriptions (per 100 people) 41.1 91.3 101. Fixed-broadband subscriptions (per 100 people) 0.4 14.1 11. Households with a computer (%) 20.0 45.0 46. Households with Internet access at home (%) 6.2 50.0 45. Usage Int'l. voice traffic, total (minutes/subscription/month) . 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47.				
Internet service M C Foreign ownership (not allowed, restricted, allowed) A A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications revenue (% of GDP) 6.1 4.6 2. Telecommunications investment (% of revenue) 36.5 22.6 19. Sector performance Access Fixed-telephone subscriptions (per 100 people) 25.0 22.2 17. Mobile-cellular telephone subscriptions (per 100 people) 41.1 91.3 101. Fixed-broadband subscriptions (per 100 people) 0.4 14.1 11. Households with a computer (%) 20.0 45.0 46. Households with Internet access at home (%) 6.2 50.0 45. Usage Int'l. voice traffic, total (minutes/subscription/month) . 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47.	• • • • • • • • • • • • • • • • • • • •			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) B 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 niternet access at home (%) Classe Int'I. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Quality	•		•	
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) Mobile-cellula				
Sector efficiency and capacity Telecommunications revenue (% of GDP) 6.1 4.6 2. Telecommunications investment (% of revenue) 36.5 22.6 19. Sector performance Access Fixed-telephone subscriptions (per 100 people) 25.0 22.2 17. Mobile-cellular telephone subscriptions (per 100 people) 41.1 91.3 101. Fixed-broadband subscriptions (per 100 people) 0.4 14.1 11. Households with a computer (%) 20.0 45.0 46.				
Telecommunications revenue (% of GDP) 6.1 4.6 2. Telecommunications investment (% of revenue) 36.5 22.6 19. Sector performance Access ** Fixed-telephone subscriptions (per 100 people) 25.0 22.2 17. Mobile-cellular telephone subscriptions (per 100 people) 41.1 91.3 101. Fixed-broadband subscriptions (per 100 people) 0.4 14.1 11. Households with a computer (%) 20.0 45.0 46. Households with Internet access at home (%) 6.2 50.0 45. Usage Int'l. voice traffic, total (minutes/subscription/month) 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47.	- Leatment of voir (banned, closed, no framework, anowed) b	A	
Telecommunications investment (% of revenue) 36.5 22.6 19.		6.1	16	2.4
Sector performance Access Fixed-telephone subscriptions (per 100 people) 25.0 22.2 17. Mobile-cellular telephone subscriptions (per 100 people) 41.1 91.3 101. 17. 17. 18. 19.1				
## Access		30.5	22.0	
Fixed-telephone subscriptions (per 100 people) 25.0 22.2 17. Mobile-cellular telephone subscriptions (per 100 people) 41.1 91.3 101. Fixed-broadband subscriptions (per 100 people) 0.4 14.1 11. Households with a computer (%) 20.0 45.0 46. Households with Internet access at home (%) 6.2 50.0 45. Usage Int'l. voice traffic, total (minutes/subscription/month) . 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47.	•			
Mobile-cellular telephone subscriptions (per 100 people) 41.1 91.3 101. Fixed-broadband subscriptions (per 100 people) 0.4 14.1 11. Households with a computer (%) 20.0 45.0 46. Households with Internet access at home (%) 6.2 50.0 45. Usage Int'l. voice traffic, total (minutes/subscription/month) . 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47.		25.0	22.2	17.6
Fixed-broadband subscriptions (per 100 people) 0.4 14.1 11. Households with a computer (%) 20.0 45.0 46. Households with Internet access at home (%) 6.2 50.0 45. Usage Int'l. voice traffic, total (minutes/subscription/month) 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47. Quality				
Households with a computer (%) 20.0 45.0 46. Households with Internet access at home (%) 6.2 50.0 45. Usage Int'l. voice traffic, total (minutes/subscription/month) 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47.				11.7
Households with Internet access at home (%) 6.2 50.0 45. **Usage** Int'l. voice traffic, total (minutes/subscription/month) 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47. **Quality**				46.0
Int'l. voice traffic, total (minutes/subscription/month) 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47.				45.3
Int'l. voice traffic, total (minutes/subscription/month) 15.3 1. Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47.	lleada			
Domestic mobile traffic (minutes/subscription/month) 36.3 62.8 293. Individuals using the Internet (%) 21.3 60.8 47. Quality	•		15.3	1.6
Individuals using the Internet (%) 21.3 60.8 47. Quality		36.3	62.8	293.4
		21.3	60.8	47.7
·	Quality			
	•	97	100	99
International Internet bandwidth (bit/s per Internet user) 187 43,003 21,25	•	187	43,003	21,253
Affordability	Affordability			
	•		7.8	8.9
	· · · · · · · · · · · · · · · · · · ·		14.7	12.4
			7.9	17.3
Trade	Trade			
		0.3	0.2	18.0
		4.2	2.8	15.1
		18.1	5.4	27.4
Applications	Applications			
		0.45	0.28	0.37
		3.4	35.9	23.3

Botswana

Page	Sub-Saharan Africa	Upper n	niddle	income
				Upper
		Count	ry data	income
Population (millions)		2005	2014	
Urban population (% of total) GNI per capita, World Bank Atlas method (\$) Adult literacy rate (% ages 15 and older) SI 87 Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunicompetition, partial comp., monopoly) International gateway(s) Mobile telephone service C M International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Tielecommunications investment (% of revenue) Tielecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) To 3 8.3 To 4.1 Households with a computer (%) Households with a computer (%) Households with internet access at home (%) Cusage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Tiele computer (%) Affordability Fixed-broadband sub-basket (\$ a month) Domestic mobile traffic (minutes/subscription/month) To 14.2 Samplications Oli 12.4 Applications Online service index (0-1, 1-highest presence) Online service index (0-1, 1-highest presence) Online service index (0-1, 1-highest presence)	Economic and social context			
GNI per capita, World Bank Atlas method (\$)	Population (millions)	2	2	2,361
GDP growth, 2000-05 and 2005-14 (avg. annual %) 3.9 4.7 6.0	Urban population (% of total)	55	57	62
Adult literacy rate (% ages 15 and older) Gross primary, secondary, 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 C M Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Tiked-broadband subscriptions (per 100 people)	GNI per capita, World Bank Atlas method (\$)	4,760	7,240	7,873
Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications partial comp., monopoly) International gateway(s) Mobile telephone service Internet servi	GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.9	4.7	6.0
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 M M M M M M M	Adult literacy rate (% ages 15 and older)	81	87	94
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 C M Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications revenue (% of Ferenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Cuality Population covered by a mobile-cellular network (%) Population covered by a mobile-cellular network (%) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a	Gross primary, secondary, tertiary school enrollment (%)	72		80
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Internet service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Fixed-toroadband subscriptions Fixed-telephone subscriptions Fixed-telephone subscriptions Fixed-telephone sub-basket (\$ a month)	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service C M Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, allowed) Reg. treatment of VoIP (banned, allowed)	Separate telecommunications/ICT regulator	Yes	Yes	
International gateway(s)	Status of main fixed-line telephone operator	Public	Public	
Mobile telephone service	Level of competition (competition, partial comp., monopoly)			
Internet service	International gateway(s)	М	M	
Internet service	• • • • • • • • • • • • • • • • • • • •	С	М	
Foreign ownership (not allowed, restricted, allowed)	•		М	
Reg. treatment of VoIP (banned, closed, no framework, allowed) B A				
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) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Moseholds with a computer (%) Households with Internet access at home (%) Consider traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Access Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) Population covered by a mobile-cellular network (%) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) Online service index (0-1, 1=highest presence)				
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) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Moseholds with a computer (%) Households with Internet access at home (%) Consider traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Access Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) Population covered by a mobile-cellular network (%) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) Online service index (0-1, 1=highest presence)	Sector efficiency and capacity			
Sector performance Access	Telecommunications revenue (% of GDP)	3.2	4.1	2.4
## Access Fixed-telephone subscriptions (per 100 people) 7.3 8.3 17.4 Mobile-cellular telephone subscriptions (per 100 people) 30.1 167.3 101.4 Fixed-broadband subscriptions (per 100 people) 0.1 1.6 11.5 Households with a computer (%) 6.5 14.8 46.4 Households with Internet access at home (%) 0.1 12.1 45.5 Usage	Telecommunications investment (% of revenue)	48.9	14.4	19.7
Fixed-telephone subscriptions (per 100 people) 7.3 8.3 17.4 Mobile-cellular telephone subscriptions (per 100 people) 30.1 167.3 101.5 Fixed-broadband subscriptions (per 100 people) 0.1 1.6 11. Households with a computer (%) 6.5 14.8 46.1 Households with Internet access at home (%) 0.1 12.1 45.5 Usage Int'l. voice traffic, total (minutes/subscription/month) 1. Domestic mobile traffic (minutes/subscription/month) 45.5 56.4 293. Individuals using the Internet (%) 3.3 18.5 47. Quality Population covered by a mobile-cellular network (%) 99 96 99 International Internet bandwidth (bit/s per Internet user) 490 16,437 21,253 Affordability 14.2 8.3 Mobile-cellular sub-basket (\$ a month) 17.3 **Trixed-broadband sub-basket (\$ a month) 17.3 **Trixed-broadband sub-basket (\$ a month)	Sector performance			
Mobile-cellular telephone subscriptions (per 100 people) 30.1 167.3 101.4 Fixed-broadband subscriptions (per 100 people) 0.1 1.6 11.1 Households with a computer (%) 6.5 14.8 46.1 Households with Internet access at home (%) 0.1 12.1 45.3 Usage Int'l. voice traffic, total (minutes/subscription/month) 1.4 Domestic mobile traffic (minutes/subscription/month) 45.5 56.4 293.4 Individuals using the Internet (%) 3.3 18.5 47. Quality Population covered by a mobile-cellular network (%) 99 96 99 International Internet bandwidth (bit/s per Internet user) 490 16,437 21,253 Affordability Fixed-blephone sub-basket (\$ a month) 10.6 12.4 Mobile-cellular sub-basket (\$ a month) 10.6 12.4 Fixed-broadband sub-basket (\$ a month) 39.0 17.5 Trade ICT goods exports (% of total goods exports) 0.2 0.1 18.4 ICT goods imports (Access			
Fixed-broadband subscriptions (per 100 people) 0.1 1.6 11.1 Households with a computer (%) 6.5 14.8 46.0 Households with Internet access at home (%) 0.1 12.1 45.3 Usage Int'l. voice traffic, total (minutes/subscription/month) 1.0 Domestic mobile traffic (minutes/subscription/month) 45.5 56.4 293.4 Individuals using the Internet (%) 3.3 18.5 47. Quality Population covered by a mobile-cellular network (%) 99 96 99 International Internet bandwidth (bit/s per Internet user) 490 16,437 21,253 Affordability Fixed-telephone sub-basket (\$ a month) 14.2 8.3 Mobile-cellular sub-basket (\$ a month) 10.6 12.7 Trade Internet user 0.2 0.1 18.0 Internet user 0.2 0.1 18.0 Internet user 0.2 0.1 18.0 Internet	Fixed-telephone subscriptions (per 100 people)	7.3	8.3	17.6
Households with a computer (%) 6.5 14.8 46.1 Households with Internet access at home (%) 0.1 12.1 45.3 Usage Int'l. voice traffic, total (minutes/subscription/month) 1.1 Domestic mobile traffic (minutes/subscription/month) 45.5 56.4 293.4 Individuals using the Internet (%) 3.3 18.5 47. Quality Population covered by a mobile-cellular network (%) 99 96 99 International Internet bandwidth (bit/s per Internet user) 490 16,437 21,253 Affordability Fixed-telephone sub-basket (\$ a month) 14.2 8.3 Mobile-cellular sub-basket (\$ a month) 10.6 12.4 Fixed-broadband sub-basket (\$ a month) 39.0 17.3 Trade ICT goods exports (% of total goods exports) 0.2 0.1 18.0 ICT goods imports (% of total goods imports) 4.7 2.2 15.1 ICT service exports (% of total service exports) 12.8 33.8 27.4 Applications Online service index (0-1, 1=highest presence) 0.36 0.31 0.33	Mobile-cellular telephone subscriptions (per 100 people)	30.1	167.3	101.4
Households with Internet access at home (%)	Fixed-broadband subscriptions (per 100 people)	0.1	1.6	11.7
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Usage Individuals using the Internet (%) Usage Individuals using the Internet (%) Usage Population covered by a mobile-cellular network (%) Population covered by a mobile-cellular network (%) Usage Population Usage Affordability Fixed-telephone sub-basket (\$ a month) Usage U	Households with a computer (%)	6.5	14.8	46.0
Int'l. voice traffic, total (minutes/subscription/month) 1.1 Domestic mobile traffic (minutes/subscription/month) 45.5 56.4 293.4 Individuals using the Internet (%) 3.3 18.5 47. Quality Population covered by a mobile-cellular network (%) 99 96 99 International Internet bandwidth (bit/s per Internet user) 490 16,437 21,250 Affordability Fixed-telephone sub-basket (\$ a month) 10.6 12.4 Mobile-cellular sub-basket (\$ a month) 10.6 12.4 Fixed-broadband sub-basket (\$ a month) 39.0 17.5 Trade ICT goods exports (% of total goods exports) 0.2 0.1 18.6 ICT goods imports (% of total goods imports) 4.7 2.2 15. ICT service exports (% of total service exports) 12.8 33.8 27. Applications Online service index (0-1, 1=highest presence) 0.36 0.31 0.31	Households with Internet access at home (%)	0.1	12.1	45.3
Domestic mobile traffic (minutes/subscription/month) 45.5 56.4 293.4 Individuals using the Internet (%) 3.3 18.5 47. Quality Population covered by a mobile-cellular network (%) 99 96 99.5 International Internet bandwidth (bit/s per Internet user) 490 16,437 21,25.5 Affordability 14.2 8.3 Mobile-cellular sub-basket (\$ a month) 10.6 12.7 Fixed-broadband sub-basket (\$ a month) 39.0 17.3 Trade ICT goods exports (% of total goods exports) 0.2 0.1 18.6 ICT goods imports (% of total goods imports) 4.7 2.2 15. ICT service exports (% of total service exports) 12.8 33.8 27. Applications Online service index (0-1, 1=highest presence) 0.36 0.31 0.31	•			
Affordability 99 96 96 90 96 90 96 90 96 90 96 90 96 90 96 90 96 90 96 90 96 90 96 90 96 90 96 90 96 90 90				1.6
Quality Population covered by a mobile-cellular network (%) 99 96 99 International Internet bandwidth (bit/s per Internet user) 490 16,437 21,253 Affordability Fixed-telephone sub-basket (\$ a month) 14.2 8.3 Mobile-cellular sub-basket (\$ a month) 10.6 12.4 Fixed-broadband sub-basket (\$ a month) 39.0 17.3 Trade ICT goods exports (% of total goods exports) 0.2 0.1 18.0 ICT goods imports (% of total goods imports) 4.7 2.2 15.1 ICT service exports (% of total service exports) 12.8 33.8 27.4 Applications Online service index (0-1, 1=highest presence) 0.36 0.31 0.31				
Population covered by a mobile-cellular network (%) 99 96 98 99 96 96 99 96 99 96 99 96 99 96 99 96 96 99 96 99 96	Individuals using the Internet (%)	3.3	18.5	47.7
### Affordability ### Affordability Fixed-telephone sub-basket (\$ a month) ### Mobile-cellular sub-basket (\$ a month) ### Fixed-broadband sub-basket (\$ a month) ### Trade ### ICT goods exports (% of total goods exports) ### ICT goods imports (% of total goods imports) ### ICT goods imports (% of total goods imports) ### ICT goods imports (% of total goods imports) ### ICT goods imports (% of total goods imports) ### ICT goods imports (% of total goods imports) ### ICT goods imports (% of total service exports) ### Applications Online service index (0-1, 1=highest presence) ### O.36 ### O.31 ### O.31 ### O.35 ### O.36 ### O.31 ### O.35 ### O.36 ### O.31 ### O.36 ### O.31 ### O.36 #	• •	00	00	00
### Affordability	•			
Fixed-telephone sub-basket (\$ a month) 14.2 8.3 Mobile-cellular sub-basket (\$ a month) 10.6 12.4 Fixed-broadband sub-basket (\$ a month) 39.0 17.3 Trade ICT goods exports (% of total goods exports) 0.2 0.1 18.0 ICT goods imports (% of total goods imports) 4.7 2.2 15.1 ICT service exports (% of total service exports) 12.8 33.8 27.4 Applications Online service index (0-1, 1=highest presence) 0.36 0.31 0.31	International Internet bandwidth (bit/s per Internet user)	490	16,437	21,253
Mobile-cellular sub-basket (\$ a month) 10.6 12.4 Fixed-broadband sub-basket (\$ a month) 39.0 17.3 Trade ICT goods exports (% of total goods exports) 0.2 0.1 18. 10.7 18. ICT goods imports (% of total goods imports) 4.7 2.2 15. 15. ICT service exports (% of total service exports) 12.8 33.8 27. Applications 0.36 0.31 0.31	Affordability		140	0.0
Fixed-broadband sub-basket (\$ a month) 39.0 17.3 Trade ICT goods exports (% of total goods exports) 0.2 0.1 18.0 ICT goods imports (% of total goods imports) 4.7 2.2 15.1 ICT service exports (% of total service exports) 12.8 33.8 27.4 Applications Online service index (0-1, 1=highest presence) 0.36 0.31 0.31				
ICT goods exports (% of total goods exports) 0.2 0.1 18.0 ICT goods imports (% of total goods imports) 4.7 2.2 15.0 ICT service exports (% of total service exports) 12.8 33.8 27.0 Applications Online service index (0-1, 1=highest presence) 0.36 0.31 0.3	Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)			12.4 17.3
ICT goods exports (% of total goods exports) 0.2 0.1 18.0 ICT goods imports (% of total goods imports) 4.7 2.2 15.0 ICT service exports (% of total service exports) 12.8 33.8 27.0 Applications Online service index (0-1, 1=highest presence) 0.36 0.31 0.3	Trade			
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) Applications Online service index (0-1, 1=highest presence) 4.7 2.2 15. 33.8 27. 4.7 0.36 0.31 0.3		0.2	0.1	18.0
ICT service exports (% of total service exports) 12.8 33.8 27.4 Applications Online service index (0-1, 1=highest presence) 0.36 0.31 0.3				
Online service index (0-1, 1=highest presence) 0.36 0.31 0.3	ICT service exports (% of total service exports)			27.4
Online service index (0-1, 1=highest presence) 0.36 0.31 0.3	Applications			
		0.36	0.31	0.37
Secure internet servers (ner million neonle) 16 113 23	Secure Internet servers (per million people)	1.6	11.3	23.3

Brazil

Latin America & Caribbean	Upper n	niddle	income
	Count	ry data	Upper middle income
	2005	2014	group 2014
Economic and social context			
Population (millions)	188	206	2,36
Urban population (% of total)	83	85	62
GNI per capita, World Bank Atlas method (\$)	3,900	11,530	7,87
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.9	3.6	6.
Adult literacy rate (% ages 15 and older)	90	91	9.
Gross primary, secondary, tertiary school enrollment (%)			8
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)	M	M	
Mobile telephone service	M	C	
Internet service	M A	C A	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
teatment of von (banned, closed, no namework, anower		^	
Sector efficiency and capacity		0.7	
Telecommunications revenue (% of GDP)	4.1	2.7	2
Telecommunications investment (% of revenue)	17.4	13.1	19.
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	21.4	21.8	
Mobile-cellular telephone subscriptions (per 100 people)	46.3	139.0	
Fixed-broadband subscriptions (per 100 people)	1.7	11.5	
Households with Internet access at home (%)	18.5	52.0	
Households with Internet access at home (%)	13.6	48.0	45.
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		0.2	
Domestic mobile traffic (minutes/subscription/month)	30.9	56.9	
Individuals using the Internet (%)	21.0	57.6	47.
Quality			
Population covered by a mobile-cellular network (%)	88	100	
International Internet bandwidth (bit/s per Internet user)	716	42,966	21,25
Affordability			
Fixed-telephone sub-basket (\$ a month)		24.3	8.
Mobile-cellular sub-basket (\$ a month)		48.3	12.
Fixed-broadband sub-basket (\$ a month)		13.8	17
Trade			
ICT goods exports (% of total goods exports)	3.1	0.5	18.
ICT goods imports (% of total goods imports)	12.1	8.6	
ICT service exports (% of total service exports)	43.0	57.2	27.
Applications			
Online service index (0-1, 1=highest presence)	0.57	0.60	0.3
Secure Internet servers (per million people)	14.0	68.6	

Brunei Darussalam

Economic and social context Population (millions) Urban population (% of total) ORD ger capita, World Bank Atlas method (\$) ORD growth, 2000-05 and 2005-14 (avg. annual %) O		Count	ry data	High- income
Population (millions)		2005	2014	group 2014
Urban population (% of total) 74 77 GNI per capita, World Bank Atlas method (\$) 23,290 37,320 38,3 GDP growth, 2000-05 and 2005-14 (avg. annual %) 2.2 0.9 Adult literacy rate (% ages 15 and older) 93 96 Gross primary, secondary, tertiary school enrollment (%) 81 80 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 P Mobile telephone service M P P International gateway(s) M P Foreign ownership (not allowed, restricted, allowed) R R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP)	Economic and social context			
GNI per capita, World Bank Atlas method (\$) 23,290 37,320 38,3 GDP growth, 2000-05 and 2005-14 (avg. annual %) 2.2 0.9 Adult literacy rate (% ages 15 and older) 93 96 Gross primary, secondary, tertiary school enrollment (%) 81 80 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Public Level of competition (competition, partial comp., monopoly) International gateway(s) M P International gateway(s) M P International gateway(s) M P International gateway(s) M P Reg. treatment of VoIP (banned, closed, no framework, allowed) R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP)	Population (millions)	0.36	0.42	1,399
GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Public Public Public Public Public Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Inter	Urban population (% of total)	74	77	81
Adult literacy rate (% ages 15 and older) 93 96 Gross primary, secondary, tertiary school enrollment (%) 81 80 Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Public Level of competition (competition, partial comp., monopoly) International gateway(s) M P International gateway(s) M P Internet service		-, -	,	38,317
Gross primary, secondary, tertiary school enrollment (%) 81 80 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 P Mobile telephone service M 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)				1.1
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 Mobile telephone service Mobile telephone service Mobile telephone service Mobile telephone service Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Sector performance Access Fixed-telephone subscriptions (per 100 people) Bobile-cellular telephone subscriptions (per 100 people) Company of the service of the se	,			99
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 Mobile telephone service Internet service Mobile telephone to tallowed, restricted, allowed) Robile telephone service Reg. treatment of VoIP (banned, closed, no framework, allowed) Robile telephone subscriptions (per 100 people) Robile telephone subscriptions (per 100 people) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Sized-broadband subscript	Gross primary, secondary, tertiary school enrollment (%)	81	80	95
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet 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 Fixed-telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Sage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) M M P Individuals using the Internet International particular retwork (%) M P International particular particul				
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet servic				
International gateway(s) M P Mobile telephone service M 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)		Public	Public	
Mobile telephone service				
Internet service	0 ,,,			
Foreign ownership (not allowed, restricted, allowed) R R R R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A A Sector efficiency and capacity Telecommunications revenue (% of GDP)	•			
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) Fixed-broadband subscriptions (per 100 people) Fixed				
Sector efficiency and capacity Telecommunications revenue (% of GDP)				
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Fixed-telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Fixed-telephone subscriptions (per 100 people) Fixed-transfo	Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	A	
Telecommunications investment (% of revenue)				
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per	·			2.6
Access Fixed-telephone subscriptions (per 100 people) 22.8 11.4 33 Mobile-cellular telephone subscriptions (per 100 people) 63.3 110.1 12 Fixed-broadband subscriptions (per 100 people) 2.2 7.1 26 Households with a computer (%) 55.0 92.0 86 Households with Internet access at home (%) 50.0 79.2 8 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 18 Individuals using the Internet (%) 36.5 68.8 86 Quality Population covered by a mobile-cellular network (%) <	lelecommunications investment (% of revenue)			16.8
Fixed-telephone subscriptions (per 100 people) 22.8 11.4 33 Mobile-cellular telephone subscriptions (per 100 people) 63.3 110.1 123 Fixed-broadband subscriptions (per 100 people) 2.2 7.1 21 Households with a computer (%) 55.0 92.0 81 Households with Internet access at home (%) 50.0 79.2 8 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 18 Individuals using the Internet (%) 36.5 68.8 80 Quality Population covered by a mobile-cellular network (%) <td>Sector performance</td> <td></td> <td></td> <td></td>	Sector performance			
Mobile-cellular telephone subscriptions (per 100 people) 63.3 110.1 12: Fixed-broadband subscriptions (per 100 people) 2.2 7.1 28: Households with a computer (%) 55.0 92.0 88 Households with Internet access at home (%) 50.0 79.2 8 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 18: Individuals using the Internet (%) 36.5 68.8 80 Quality Population covered by a mobile-cellular network (%)				
Fixed-broadband subscriptions (per 100 people) 1. 2. 2. 7.1 2. 2. 2. 2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.				39.9
Households with a computer (%) 55.0 92.0 8! Households with Internet access at home (%) 50.0 79.2 8 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 18: Individuals using the Internet (%) 36.5 68.8 8! Quality Population covered by a mobile-cellular network (%) 11				123.3
Households with Internet access at home (%) 50.0 79.2 8 **Usage** Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 186 Individuals using the Internet (%) 36.5 68.8 86 **Quality** Population covered by a mobile-cellular network (%) 11				28.0
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 188 Individuals using the Internet (%) 36.5 68.8 88 Quality Population covered by a mobile-cellular network (%) 11				80.3
Int'l. voice traffic, total (minutes/subscription/month) 180 Domestic mobile traffic (minutes/subscription/month) 180 Individuals using the Internet (%) 36.5 68.8 80 Quality Population covered by a mobile-cellular network (%) </td <td>Households with Internet access at home (%)</td> <td>50.0</td> <td>79.2</td> <td>81.0</td>	Households with Internet access at home (%)	50.0	79.2	81.0
Domestic mobile traffic (minutes/subscription/month)	Usage			
Individuals using the Internet (%) 36.5 68.8 81 Quality Population covered by a mobile-cellular network (%)	Int'l. voice traffic, total (minutes/subscription/month)			
Quality Population covered by a mobile-cellular network (%) <td>Domestic mobile traffic (minutes/subscription/month)</td> <td></td> <td></td> <td>188.0</td>	Domestic mobile traffic (minutes/subscription/month)			188.0
Population covered by a mobile-cellular network (%) 1	Individuals using the Internet (%)	36.5	68.8	80.6
Population covered by a mobile-cellular network (%) 1	Ouality			
International Internet bandwidth (bit/s per Internet user) 4,138 68,720 131,8	•			100
	International Internet bandwidth (bit/s per Internet user)	4,138	68,720	131,821
Affordability	Affordahility			
	•		12.5	23.7
				18.7
,				26.9
Trade	Trado			
		0.1	0.1	8.2
				10.5
				30.3
Applications	Applications			
ApplicationsOnline service index (0-1, 1=highest presence)0.470.360.		0.47	0.36	0.67
		13.8	150.9	928.0

Bulgaria

Europe & Central Asia	Upper r	niddle	income
	Count	ry data	Upper middle- income group
	2005	2014	2014
Economic and social context			
Population (millions)	8	7	2,361
Urban population (% of total)	71	74	62
GNI per capita, World Bank Atlas method (\$)	3,700	7,420	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.3	1.6	6.0
Adult literacy rate (% ages 15 and older)	98	98	94
Gross primary, secondary, tertiary school enrollment (%)	77	88	80
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M	М	
Mobile telephone service	P	M	
Internet service	C A	M R	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowe		A A	
	u) 110		
Sector efficiency and capacity		0.0	
Telecommunications revenue (% of GDP)	6.0 34.5	2.8 23.7	2.4 19.1
Telecommunications investment (% of revenue)	34.5	23.1	13.1
Sector performance			
Access	00.4	25.0	47.
Fixed-telephone subscriptions (per 100 people)	32.4	25.3	17.6
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	81.3 2.2	137.7 20.7	101.4 11.7
Households with a computer (%)	17.9		46.0
Households with Internet access at home (%)	13.3		45.3
Usage Int'l. voice traffic, total (minutes/subscription/month)	5.9	7.6	1.6
Domestic mobile traffic (minutes/subscription/month)	37.8	128.9	293.4
Individuals using the Internet (%)	20.0	55.5	47.
marriada doing the internet (18)	20.0	00.0	
Quality	100	100	9:
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	100	100 138,277	21,25
international internet bandwidth (bit/s per internet user)	000	130,211	21,25
Affordability			
Fixed-telephone sub-basket (\$ a month)		11.4	
Mobile-cellular sub-basket (\$ a month)		33.2	12.4
Fixed-broadband sub-basket (\$ a month)		11.4	17.3
Trade			
ICT goods exports (% of total goods exports)	1.5	2.3	18.0
ICT goods imports (% of total goods imports)	5.5	4.7	15.1
ICT service exports (% of total service exports)	12.5	18.5	27.4
Applications			
Online service index (0-1, 1=highest presence)	0.57	0.24	0.3
Secure Internet servers (per million people)	8.7	176.7	23.3

Burkina Faso

Sub-Saharan Africa Low income

	Countr	y data	Low- income group
-	2005	2014	2014
Economic and social context			
Population (millions)	13	18	622
Urban population (% of total)	22	29	30
GNI per capita, World Bank Atlas method (\$)	410	710	626
GDP growth, 2000-05 and 2005-14 (avg. annual %)	6.2	6.2	6.1
Adult literacy rate (% ages 15 and older)	24		57
Gross primary, secondary, tertiary school enrollment (%)	29	47	59
Sector structure	V	V	
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Mixed	
Level of competition (competition, partial comp., monopoly)	М	М	
International gateway(s)	M	IVI P	
Mobile telephone service			
Internet service	М	М	
Foreign ownership (not allowed, restricted, allowed)	R	R C	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.5		
Telecommunications investment (% of revenue)	55.8		
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 (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	0.7 4.7 0.0 1.4 0.0	0.7 71.7 0.0 4.6 8.3 29.6 9.4	0.9 57.2 0.2 4.5 4.2 39.8 6.3
Quality			
Population covered by a mobile-cellular network (%)	26		
International Internet bandwidth (bit/s per Internet user)	1,142	2,860	4,196
Affordability (**)		110	0.7
Fixed-telephone sub-basket (\$ a month)		14.2	8.7
Mobile-cellular sub-basket (\$ a month)		11.7	11.7
Fixed-broadband sub-basket (\$ a month)		44.5	44.9
Trade	0.2	0.0	
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	4.5	1.9	2.7
ICT service exports (% of total service exports)	4.5 8.9	21.1	21.5
Applications			
Online service index (0-1, 1=highest presence)	0.15	0.30	0.11

Burundi

Sub-Saharan Africa Low income

Population (millions)		Countr	y data	Low- income group
Population (millions)	-	2005	2014	
Urban population (% of total)	Economic and social context			
GNI per capita, World Bank Atlas method (\$) 130 270 626	Population (millions)		11	
GDP growth, 2000-05 and 2005-14 (avg. annual %)		-		
Adult literacy rate (% ages 15 and older) 59 57 Gross primary, secondary, tertiary school enrollment (%) 36 64 59 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 M M International gateway(s) M M M M M M M M M M M M M M M M M M M				
Gross primary, secondary, tertiary school enrollment (%) 36 64 59 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 M Mobile telephone service M M M M Foreign ownership (not allowed, restricted, allowed) A A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B Sector efficiency and capacity Telecommunications revenue (% of GDP) . 3.5 Telecommunications revenue (% of GDP) . 3.5 Telecommunications investment (% of revenue)				
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Mobile telephone service Internet service Mobile telephone service to the service to th				5 <i>7</i> 59
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Mobile telephone service Internet service Mobile telephone service Internet service Mobile telephone service (% of GDP) Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Mobile telephone subscriptions (per 100 people) Mobile telephone subscriptions (per 100 people) Mobile telephone subscription (per 100 people) Mobile traffic, total (minutes/subscription/month) Mobile traffic, total (minutes/subscription/month) Mobile traffic, total (minutes/subscription/month) Mobile traffic (minutes/subscription/month) Mobile traffi	Sector structure			-
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service M M M Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications investment (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Circumpage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Affordability Fixed-telephone sub-basket (\$ a month) Affordability Fixed-telephone sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) CIT service exports (% of total service exports) Online service index (0-1, 1=highest presence) O.18 O.29 O.11 O.20 O.30.5 O.3.5 O.3.5 O.3.5 O.4 O.50 O.70 O.	Separate telecommunications/ICT regulator	Yes	Yes	
International gateway(s) Mobile telephone service Internet service Internet service Mode Mode Mode Mode Mode Mode Mode Mode	·	Public	Public	
Mobile telephone service Internet service M M M M Foreign ownership (not allowed, restricted, allowed) A A A Reg. treatment of VoIP (banned, closed, no framework, allowed) B B B Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.5				
Internet service Foreign ownership (not allowed, restricted, allowed) Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband	9 , , ,			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Louseholds with a computer (%) Households with Internet access at home (%) Louseholds with Internet access at home (%) Louseholds with Internet access at home (%) Cusage Int'l. voice traffic, total (minutes/subscription/month) Louseholds using the Internet (%) Cuality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Affordability Fixed-telephone sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) Online service index (0-1, 1=highest presence) O.18 O.20 O.11 O.20 O.30.5 O.2 O.9 O.4 O.2 O.9 O.9 O.4 O.2 O.9 O.4 O.2 O.9 O.4 O.2 O.9 O.9 O.4 O.2 O.9 O.9 O.4 O.2 O.9 O.4 O.2 O.9 O.9 O.0 O.2 O.0 O.2 O.0 O.2 O.0 O.0	·			
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Tixed-broadband sub-basket (\$ a month) Tixed-broadband sub				
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) Pixed-broadband subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Pixed-broadband subscription (per 100 people) Pixed-broadband (per 100 people) Pixed-broadband (per 100 people) Pixed-broadband	•			
Telecommunications revenue (% of GDP) 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) 2.0 30.5 57.2 Fixed-broadband subscriptions (per 100 people) 0.0 0.2 Households with a computer (%) 4.5 Households with Internet access at home (%) 4.2 Usage Int'l. voice traffic, total (minutes/subscription/month) 5.9 Domestic mobile traffic (minutes/subscription/month) 35.1 39.8 Individuals using the Internet (%) 0.5 1.4 6.3 Quality Population covered by a mobile-cellular network (%) 82 International Internet bandwidth (bit/s per Internet user) 95 6,913 4,196 Affordability Fixed-telephone sub-basket (\$ a month) 1.4 8.7 Mobile-cellular sub-basket (\$ a month) 7.4 11.7 Fixed-broadband sub-basket (\$ a month) 51.4 44.9 Trade ICT goods exports (% of total goods exports) 0.1 0.2 ICT goods imports (% of total goods imports) 5.6 1.9 2.7 ICT service exports (% of total service exports) 14.1 21.5	Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Telecommunications investment (% of revenue)			3.5	
## Access	· · · · ·			
Mobile-cellular telephone subscriptions (per 100 people) 2.0 30.5 57.2 Fixed-broadband subscriptions (per 100 people) 0.0 0.2 Households with a computer (%) 4.5 Households with Internet access at home (%) 4.2 Usage Int'l. voice traffic, total (minutes/subscription/month) 5.9 Domestic mobile traffic (minutes/subscription/month) 35.1 39.8 Individuals using the Internet (%) 0.5 1.4 6.3 Quality Population covered by a mobile-cellular network (%) 82 International Internet bandwidth (bit/s per Internet user) 95 6,913 4,196 Affordability Fixed-telephone sub-basket (\$ a month) 1.4 8.7 Mobile-cellular sub-basket (\$ a month) 7.4 11.7 Fixed-broadband sub-basket (\$ a month) 51.4 44.9 Trade ICT goods exports (% of total goods exports) 0.1 0.2 <td>•</td> <td></td> <td></td> <td></td>	•			
Fixed-broadband subscriptions (per 100 people) 0.0 0.2 Households with a computer (%) 4.5 Households with Internet access at home (%) 4.2 Usage Int'l. voice traffic, total (minutes/subscription/month) 5.9 Domestic mobile traffic (minutes/subscription/month) 35.1 39.8 Individuals using the Internet (%) 0.5 1.4 6.3 Quality Population covered by a mobile-cellular network (%) 82 Population covered by a mobile-cellular network (%) 82 International Internet bandwidth (bit/s per Internet user) 95 6,913 4,196 Affordability Fixed-telephone sub-basket (\$ a month) 1.4 8.7 Mobile-cellular sub-basket (\$ a month) 7.4 11.7 Fixed-broadband sub-basket (\$ a month) 51.4 44.9 Trade ICT goods exports (% of total goods exports) 0.1 0.2 ICT goods imports (% of to	Fixed-telephone subscriptions (per 100 people)	0.4	0.2	0.9
Households with a computer (%)	Mobile-cellular telephone subscriptions (per 100 people)	2.0	30.5	57.2
Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic, total goods exports (%) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/s	Fixed-broadband subscriptions (per 100 people)		0.0	0.2
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffi	· · · · ·			4.5
Int'l. voice traffic, total (minutes/subscription/month) 5.9 Domestic mobile traffic (minutes/subscription/month) 35.1 39.8 Individuals using the Internet (%) 0.5 1.4 6.3 Quality Population covered by a mobile-cellular network (%) 82 International Internet bandwidth (bit/s per Internet user) 95 6,913 4,196 Affordability Fixed-telephone sub-basket (\$ a month) 1.4 8.7 Mobile-cellular sub-basket (\$ a month) 7.4 11.7 Fixed-broadband sub-basket (\$ a month) 51.4 44.9 Trade ICT goods exports (% of total goods exports) 0.1 0.2 ICT goods imports (% of total goods imports) 5.6 1.9 2.7 ICT service exports (% of total service exports) 14.1 21.5 Applications Online service index (0-1, 1=highest presence) 0.18 0.02 0.11	Households with Internet access at home (%)			4.2
Domestic mobile traffic (minutes/subscription/month) 35.1 39.8 Individuals using the Internet (%) 0.5 1.4 6.3 Quality Population covered by a mobile-cellular network (%) 82 International Internet bandwidth (bit/s per Internet user) 95 6,913 4,196 Affordability Fixed-telephone sub-basket (\$ a month) 1.4 8.7 Mobile-cellular sub-basket (\$ a month) 7.4 11.7 Fixed-broadband sub-basket (\$ a month) 51.4 44.9 Trade ICT goods exports (% of total goods exports) 0.1 0.2 ICT goods imports (% of total goods imports) 5.6 1.9 2.7 ICT service exports (% of total service exports) 14.1 21.5 Applications Online service index (0-1, 1=highest presence) 0.18 0.02 0.11	•		5.0	
Individuals using the Internet (%) 0.5 1.4 6.3				20.0
Quality 82 International Internet bandwidth (bit/s per Internet user) 95 6,913 4,196 Affordability Fixed-telephone sub-basket (\$ a month) 1.4 8.7 Mobile-cellular sub-basket (\$ a month) 7.4 11.7 Fixed-broadband sub-basket (\$ a month) 51.4 44.9 Trade ICT goods exports (% of total goods exports) 0.1 0.2 ICT goods imports (% of total goods imports) 5.6 1.9 2.7 ICT service exports (% of total service exports) 14.1 21.5 Applications Online service index (0-1, 1=highest presence) 0.18 0.02 0.11				
Population covered by a mobile-cellular network (%) 82 International Internet bandwidth (bit/s per Internet user) 95 6,913 4,196 Affordability 1.4 8.7 Mobile-cellular sub-basket (\$ a month) 7.4 11.7 Fixed-broadband sub-basket (\$ a month) 51.4 44.9 Trade ICT goods exports (% of total goods exports) 0.1 0.2 ICT goods imports (% of total goods imports) 5.6 1.9 2.7 ICT service exports (% of total service exports) 14.1 21.5 Applications Online service index (0-1, 1=highest presence) 0.18 0.02 0.11	individuals using the internet (%)	0.5	1.4	0.3
Affordability Size of total goods exports Size of total goods imports Size of total goods imports Size of total goods imports Size of total goods exports Size of total goods imports Size of total goods imports Size of total goods Size of total	•	82		
Fixed-telephone sub-basket (\$ a month) 1.4 8.7 Mobile-cellular sub-basket (\$ a month) 7.4 11.7 Fixed-broadband sub-basket (\$ a month) 51.4 44.9 Trade ICT goods exports (% of total goods exports) 0.1 0.2 ICT goods imports (% of total goods imports) 5.6 1.9 2.7 2.7 ICT service exports (% of total service exports) 14.1 21.5 Applications 0.18 0.02 0.11		95	6,913	4,196
Mobile-cellular sub-basket (\$ a month) 7.4 11.7 Fixed-broadband sub-basket (\$ a month) 51.4 44.9 Trade ICT goods exports (% of total goods exports) 0.1 0.2 ICT goods imports (% of total goods imports) 5.6 1.9 2.7 ICT service exports (% of total service exports) 14.1 21.5 Applications Online service index (0-1, 1=highest presence) 0.18 0.02 0.11	Affordability			
Fixed-broadband sub-basket (\$ a month) 51.4 44.9 Trade ICT goods exports (% of total goods exports) 0.1 0.2 ICT goods imports (% of total goods imports) 5.6 1.9 2.7 ICT service exports (% of total service exports) 14.1 21.5 Applications 0.18 0.02 0.11				8.7
Trade ICT goods exports (% of total goods exports) 0.1 0.2 ICT goods imports (% of total goods imports) 5.6 1.9 2.7 ICT service exports (% of total service exports) 14.1 21.5 Applications Online service index (0-1, 1=highest presence) 0.18 0.02 0.11	,			11.7
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) Applications Online service index (0-1, 1=highest presence) 0.11 0.2 14.1 21.5	Fixed-broadband sub-basket (\$ a month)		51.4	44.9
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) Applications Online service index (0-1, 1=highest presence) 5.6 1.9 2.7 14.1 21.5		0.1	0.0	
ICT service exports (% of total service exports) 14.1 21.5 Applications Online service index (0-1, 1=highest presence) 0.18 0.02 0.11				27
Applications Online service index (0-1, 1=highest presence) 0.18 0.02 0.11				
Online service index (0-1, 1=highest presence) 0.18 0.02 0.11	TOT SETVICE EXPORTS (/// OI TOTAL SETVICE EXPORTS)		14.1	21.5
, , , , , , , , , , , , , , , , , , ,		0.18	0.02	0.11
occure internet servers (per minion people) U.1 U.0 1.2	Secure Internet servers (per million people)	0.1	0.6	1.2

Cabo Verde

Sub-Saharan Africa	Lower n	niddle	income
	Count	ry data	Lower middle- income
	2005	2014	group 2014
Economic and social context	2000		
Population (millions)	0.47	0.51	2.879
Urban population (% of total)	58	65	39
GNI per capita, World Bank Atlas method (\$)	2.110	3.450	2.012
GDP growth, 2000–05 and 2005–14 (avg. annual %)	5.9	3.7	5.9
Adult literacy rate (% ages 15 and older)	80	85	73
Gross primary, secondary, tertiary school enrollment (%)	71	79	67
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	M	
Mobile telephone service	С	С	
Internet service	С	M	
Foreign ownership (not allowed, restricted, allowed)	R	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed	i) B	А	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	7.5	8.2	2.3
Telecommunications investment (% of revenue)	19.1	23.9	19.8
Sector performance			
Access	15.0	11.6	4.0
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	17.1	121.8	87.1
Fixed-broadband subscriptions (per 100 people)	0.2	3.8	2.4
Households with a computer (%)	6.7	32.2	17.0
Households with Internet access at home (%)	1.4	24.8	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	33.8	22.6	8.8
Domestic mobile traffic (minutes/subscription/month)	46.6	72.1	147.6
Individuals using the Internet (%)	6.1	40.3	22.6
Quality			
Population covered by a mobile-cellular network (%)	85	96	94
International Internet bandwidth (bit/s per Internet user)	482	12,330	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		10.9	5.0
Mobile-cellular sub-basket (\$ a month)		31.4	7.7
Fixed-broadband sub-basket (\$ a month)		10.7	18.6
Trade			2.2
ICT goods exports (% of total goods exports)	0.5		6.2
ICT goods imports (% of total goods imports)	3.9	3.9	8.0
ICT service exports (% of total service exports)	7.8	9.4	51.1
Applications	0.40	0.47	0.04
Online service index (0-1, 1=highest presence)	0.42	0.17	0.24
Secure Internet servers (per million people)	2.1	50.6	5.9

Cambodia

East Asia & Pacific Low income

	Countr	y data	Low- income group
	2005	2014	2014
Economic and social context			
Population (millions)	13	15	622
Urban population (% of total)	19	21	30
GNI per capita, World Bank Atlas method (\$)	460	1,020	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	9.1	6.4	6.1
Adult literacy rate (% ages 15 and older)	74		57
Gross primary, secondary, tertiary school enrollment (%)	62		59
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)	M	C	
Mobile telephone service	M	C	
Internet service	М	C	
Foreign ownership (not allowed, restricted, allowed)	R B	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	No	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	0.4	5.5	
Telecommunications investment (% of revenue)		69.8	
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 (%) Usage Int'l. voice traffic, total (minutes/subscription/month)	0.2 8.0 0.0 1.8	2.8 155.1 0.2 10.6 7.0	57.2 0.2 4.5 4.2
Domestic mobile traffic (minutes/subscription/month)	11.1		39.8
Individuals using the Internet (%) Quality	0.3	9.0	6.3
Population covered by a mobile-cellular network (%)	75	99	
International Internet bandwidth (bit/s per Internet user)	425	9,374	4,196
Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		3.8 6.3 11.9	11.7
Trade ICT goods exports (% of total goods exports)	0.0	1.2	
ICT goods exports (% of total goods exports)	2.3	1.5	2.7
ICT service exports (% of total service exports)	6.5	8.4	
Applications			
Online service index (0-1, 1=highest presence)	0.30	0.17	0.11
Secure Internet servers (per million people)	0.1	3.0	1.2

Cameroon

Sub-Saharan Africa	Lower n	niddle	income
	Counti	y data	Lower middle- income group
	2005	2014	2014
Economic and social context			
Population (millions)	18	23	2,879
Urban population (% of total)	49	54	39
GNI per capita, World Bank Atlas method (\$)	900	1,360	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.8	3.7	5.9
Adult literacy rate (% ages 15 and older)	71	71	73
Gross primary, secondary, tertiary school enrollment (%)	51	62	67
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M	M	
Mobile telephone service	М	М	
Internet service	М	М	
Foreign ownership (not allowed, restricted, allowed)	Α	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) B	В	
Sector efficiency and capacity	0.4	2.2	0.0
Telecommunications revenue (% of GDP)	3.1	3.3	2.3
Telecommunications investment (% of revenue)	28.3	24.2	19.8
Sector performance			
Access	0.6	4.6	4.0
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	12.4	75.7	87.1
Fixed-broadband subscriptions (per 100 people)	0.0	0.1	2.4
Households with a computer (%)	3.0	9.6	17.0
Households with Internet access at home (%)	1.1	6.5	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		4.4	8.8
Domestic mobile traffic (minutes/subscription/month)	1.6	9.3	147.6
Individuals using the Internet (%)	1.4	11.0	22.6
Quality			
Population covered by a mobile-cellular network (%)	54		94
International Internet bandwidth (bit/s per Internet user)	609	1,796	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		20.2	5.0
Mobile-cellular sub-basket (\$ a month)		17.7	7.7
Fixed-broadband sub-basket (\$ a month)		60.5	18.6
Trade			
ICT goods exports (% of total goods exports)	0.0	0.0	6.2
ICT goods imports (% of total goods imports)	3.3	2.7	8.0
ICT service exports (% of total service exports)	19.1	26.4	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.27	0.20	0.24
Secure Internet servers (per million people)	0.1	1.7	5.9

Canada

	0	data	High- income
	2005	ry data 2014	group 2014
Economic and social context			
Population (millions)	32	36	1,399
Urban population (% of total)	80	82	81
GNI per capita, World Bank Atlas method (\$)	33,950	,	38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	2.5	1.6	1.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)			99 95
- Gross primary, socionally, toreary soliton emoliment (%)			
Sector structure	Voo	Voo	
Separate telecommunications/ICT regulator	Yes Public	Yes Public	
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Public	Public	
International gateway(s)	С	С	
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)		Α	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.4	2.4	2.6
Telecommunications investment (% of revenue)	16.2	20.5	16.8
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 (%)	56.3 52.8 21.7 72.0 64.3	46.6 83.0 34.4 87.6 86.6	39.9 123.3 28.0 80.3 81.0
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 71.7	 396.6 87.1	 188.0 80.6
Quality			
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	97 9 411	99 129 244	100 131,821
Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		29.1 32.0 45.6	23.7 18.7 26.9
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	3.9 9.1 39.3	2.1 7.3 42.4	8.2 10.5 30.3
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.82 569.1	0.91	0.67 928.0

Cayman Islands

	Count	ry data	High- income
-	2005	2014	group 2014
Economic and social context			
Population (millions)	0.05	0.06	1,399
Urban population (% of total)	100	100	81
GNI per capita, World Bank Atlas method (\$)			38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)			1.1
Adult literacy rate (% ages 15 and older)	99		99
Gross primary, secondary, tertiary school enrollment (%)			95
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	М	
Mobile telephone service	М	М	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	В	
Sector efficiency and capacity			0.0
Telecommunications revenue (% of GDP)			2.6
Telecommunications investment (% of revenue)		29.6	16.8
Sector performance			
Access	70.0	FF 0	20.0
Fixed-telephone subscriptions (per 100 people)	78.2	55.6	39.9
Mobile-cellular telephone subscriptions (per 100 people)	166.5	153.7	123.3
Fixed-broadband subscriptions (per 100 people)	 E 4 0	39.6 74.3	28.0
Households with a computer (%)	54.8 50.7	66.0	80.3 81.0
Households with Internet access at home (%)	30.7	00.0	01.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			188.0
Individuals using the Internet (%)	38.0	74.1	80.6
Quality			
Population covered by a mobile-cellular network (%)	100	100	100
International Internet bandwidth (bit/s per Internet user)			131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)			23.7
Mobile-cellular sub-basket (\$ a month)			18.7
Fixed-broadband sub-basket (\$ a month)			26.9
Trade			
ICT goods exports (% of total goods exports)			8.2
ICT goods imports (% of total goods imports)			10.5
ICT service exports (% of total service exports)			30.3
Applications			
Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	843.2	2,366.0	928.0

Central African Republic

Sub-Saharan Africa Low income

	Countr	Country data		Country data		Country data	Country data	Country data	Low- income group
	2005	2014	2014						
Economic and social context									
Population (millions)	4	5	622						
Urban population (% of total)	38	40	30						
GNI per capita, World Bank Atlas method (\$)	340	330	626						
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.5	-1.7	6.1						
Adult literacy rate (% ages 15 and older)	51	37	57						
Gross primary, secondary, tertiary school enrollment (%)		43	59						
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)	M	M							
Mobile telephone service	M	C							
Internet service	M	C							
Foreign ownership (not allowed, restricted, allowed)	No	No							
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	С							
Sector efficiency and capacity	1.1	2.2							
Telecommunications revenue (% of GDP)		56.3							
Telecommunications investment (% of revenue)		30.3							
Sector performance									
Access Fixed-telephone subscriptions (per 100 people)	0.3	0.0	0.9						
Mobile-cellular telephone subscriptions (per 100 people)	2.5	31.4	57.2						
Fixed-broadband subscriptions (per 100 people)		0.0	0.2						
Households with a computer (%)		3.2	4.5						
Households with Internet access at home (%)		2.7	4.2						
Usage Int'l. voice traffic, total (minutes/subscription/month)		5.2							
Domestic mobile traffic (minutes/subscription/month)		29.8	39.8						
Individuals using the Internet (%)	0.3	4.0	6.3						
individuals using the internet (%)	0.5	4.0	0.5						
Quality Population covered by a mobile-cellular network (%)	19	63							
International Internet bandwidth (bit/s per Internet user)	145	116	4,196						
international internet bandwidth (bit/ 5 per internet user)	143	110	4,130						
Affordability		10.0	0.7						
Fixed-telephone sub-basket (\$ a month)		12.9	8.7						
Mobile-cellular sub-basket (\$ a month)		13.8	11.7						
Fixed-broadband sub-basket (\$ a month)		585.0	44.9						
Trade	0.0	0.0							
ICT goods exports (% of total goods exports)	0.0	0.0							
ICT goods imports (% of total goods imports)	2.4	5.3	2.7						
ICT service exports (% of total service exports)			21.5						
Applications	0.44	00:							
Online service index (0-1, 1=highest presence)	0.14	0.04	0.11						
Secure Internet servers (per million people)	0.2	0.2	1.2						



Sub-Saharan Africa Low income

	Countr	Country data		Country data		Country data		Country data	Country data	Low- income
-	2005	2014	group 2014							
Economic and social context										
Population (millions)	10	14	622							
Urban population (% of total)	22	22	30							
GNI per capita, World Bank Atlas method (\$)	470	980	626							
GDP growth, 2000–05 and 2005–14 (avg. annual %)	17.2	5.4	6.1							
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	28 36	38 47	57 59							
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	М	М								
Internet service	M	М								
Foreign ownership (not allowed, restricted, allowed)	A	R								
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В								
Sector efficiency and capacity Telecommunications revenue (% of GDP)		2.4								
Telecommunications investment (% of revenue)										
Sector performance										
Access Fixed-telephone subscriptions (per 100 people)	0.1	0.2	0.9							
Mobile-cellular telephone subscriptions (per 100 people)	2.1	39.8	57.2							
Fixed-broadband subscriptions (per 100 people)	2.1	0.1	0.2							
Households with a computer (%)		2.9	4.5							
Households with Internet access at home (%)		2.7	4.2							
Usage										
Int'l. voice traffic, total (minutes/subscription/month)		4.1								
Domestic mobile traffic (minutes/subscription/month)		38.9	39.8							
Individuals using the Internet (%)	0.4	2.5	6.3							
Quality	24	36								
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	24 88	733	4,196							
Affordability										
Fixed-telephone sub-basket (\$ a month)		16.7	8.7							
Mobile-cellular sub-basket (\$ a month)		15.4	11.7							
Fixed-broadband sub-basket (\$ a month)		11.8	44.9							
Trade										
ICT goods exports (% of total goods exports)										
ICT goods imports (% of total goods imports)			2.7							
ICT service exports (% of total service exports)			21.5							
Applications Online service index (0.1 1=highest presence)	0.10	0.05	0.11							
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)		0.03	1.2							
occure internet servers (her million heahis)		0.1	1.2							

Channel Islands

	Countr	v data	High- income
	2005 2014		group 2014
Economic and social context			
Population (millions)	0.15	0.16	1,399
Urban population (% of total)	31	31	81
GNI per capita, World Bank Atlas method (\$)	55,320		38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	-1.2		1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)			95
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	М	
Mobile telephone service	M	М	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	No B	No B	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity			2.6
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			16.8
			10.0
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)			39.9
Mobile-cellular telephone subscriptions (per 100 people)			123.3
Fixed-broadband subscriptions (per 100 people)			28.0
Households with a computer (%)			80.3
Households with Internet access at home (%)			81.0
Haada			
Usage Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			188.0
Individuals using the Internet (%)			80.6
Quality Population covered by a mobile-cellular network (%)			100
International Internet bandwidth (bit/s per Internet user)			131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)			23.7
Mobile-cellular sub-basket (\$ a month)			18.7
Fixed-broadband sub-basket (\$ a month)			26.9
Trade			
ICT goods exports (% of total goods exports)			8.2
ICT goods imports (% of total goods imports)			10.5
ICT service exports (% of total service exports)			30.3
Applications			
Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)			928.0
,			

Chile

	Country data		High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	16	18	1,399
Urban population (% of total)	87	89	81
GNI per capita, World Bank Atlas method (\$)	6,340	14,910	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older)	4.2 96	3.9 97	1.1 99
Gross primary, secondary, tertiary school enrollment (%)	83	93	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)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)		3.8 19.4	2.6 16.8
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 (%)	21.0 64.7 4.3 30.1 16.7	19.2 133.3 14.1 60.3 53.9	39.9 123.3 28.0 80.3 81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	3.7	1.6	
Domestic mobile traffic (minutes/subscription/month)	55.9	104.4	188.0
Individuals using the Internet (%)	31.2ª	72.4	80.6
Quality Parulation covered by a mabile collular natural (9)	100	95	100
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	2,494		131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		30.3	23.7
Mobile-cellular sub-basket (\$ a month)		25.2	18.7
Fixed-broadband sub-basket (\$ a month)	••	38.3	26.9
Trade ICT goods exports (% of total goods exports)	0.5	0.4	8.2
ICT goods imports (% of total goods imports)	8.2	7.6	10.5
ICT service exports (% of total service exports)	18.4	27.0	30.3
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.58 21.3	0.82 127.6	0.67 928.0

China

East Asia & Pacific	Upper n	pper middle ir			per middle in	
	Count	Country data				
	2005	2014	group 2014			
Economic and social context						
Population (millions)	1,304	1,364	2,361			
Urban population (% of total)	43	54	62			
GNI per capita, World Bank Atlas method (\$)	1,750	7,380	7,873			
GDP growth, 2000-05 and 2005-14 (avg. annual %)	9.8	9.7				
Adult literacy rate (% ages 15 and older)	91	95				
Gross primary, secondary, tertiary school enrollment (%)	64	77	80			
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) Mobile telephone service	M P	M M				
Internet service	C	M				
Foreign ownership (not allowed, restricted, allowed)	R	R				
Reg. treatment of VoIP (banned, closed, no framework, allower		No				
Sector efficiency and capacity						
Telecommunications revenue (% of GDP)	3.1	2.0	2.4			
Telecommunications investment (% of revenue)	35.9	33.6	19.7			
Sector performance						
Access						
Fixed-telephone subscriptions (per 100 people)	26.6	17.9				
Mobile-cellular telephone subscriptions (per 100 people)	29.8	92.3				
Fixed-broadband subscriptions (per 100 people)	2.8	13.6				
Households with a computer (%)	25.0	46.7				
Households with Internet access at home (%)	11.0	47.4	45.3			
Usage	1.2	0.4	1.0			
Int'l. voice traffic, total (minutes/subscription/month)	1.3 132.5	0.4 415.4				
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	8.5	413.4				
mulviduals using the internet (70)	0.5	43.3	41.1			
Quality Population covered by a mobile-cellular network (%)	97	99	99			
International Internet bandwidth (bit/s per Internet user)	1,211	4,995				
Affordability						
Fixed-telephone sub-basket (\$ a month)		4.8	8.9			
Mobile-cellular sub-basket (\$ a month)		4.0				
Fixed-broadband sub-basket (\$ a month)		19.4	17.3			
Trade						
ICT goods exports (% of total goods exports)	30.7	27.4	18.0			
ICT goods imports (% of total goods imports)	25.3	20.5				
ICT service exports (% of total service exports)	24.9	34.6	27.4			
Applications						
Online service index (0-1, 1=highest presence)	0.50	0.61				
Secure Internet servers (per million people)	0.3	7.0	23.3			

Colombia

	UUI	VIII	ulu
Latin America & Caribbean	Upper r	niddle	income
	Count	ry data	Upper middle- income
	2005	2014	group 2014
Economic and social context			
Population (millions)	43	48	2,361
Urban population (% of total)	74	76	62
GNI per capita, World Bank Atlas method (\$)	2,920	7,970	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.7	4.5	6.0
Adult literacy rate (% ages 15 and older)	93	94	94
Gross primary, secondary, tertiary school enrollment (%)	79	84	80
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)	M	С	
Mobile telephone service	Р	С	
Internet service	С	C	
Foreign ownership (not allowed, restricted, allowed)	R	Ā	
Reg. treatment of VoIP (banned, closed, no framework, allowed		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.3	5.2	2.4
Telecommunications investment (% of revenue)			19.7
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	17.8	14.7	17.6
Mobile-cellular telephone subscriptions (per 100 people)	50.6	113.1	101.4
Fixed-broadband subscriptions (per 100 people)	0.7	10.3	11.7
Households with a computer (%)	14.6	44.5	46.0
Households with Internet access at home (%)	6.2	38.0	45.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		7.0	1.6
Domestic mobile traffic (minutes/subscription/month)	48.4	325.0	293.4
Individuals using the Internet (%)	11.0	52.6	47.7
Quality			
Population covered by a mobile-cellular network (%)	82	100	99
International Internet bandwidth (bit/s per Internet user)	4,686	34,989	21,253
Affordability			
Fixed-telephone sub-basket (\$ a month)		16.8	8.9
Mobile-cellular sub-basket (\$ a month)		21.1	12.4
Fixed-broadband sub-basket (\$ a month)		19.8	17.3
Trade			
ICT goods exports (% of total goods exports)	0.2	0.2	18.0
ICT goods imports (% of total goods imports)	13.0	9.9	15.1
ICT service exports (% of total service exports)	16.8	13.8	27.4

0.37

23.3

0.53

4.4

0.79

47.1

Applications

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

Comoros

Sub-Saharan Africa Low income

	Count	Country data		Country data	
•	2005	2014	group 2014		
Economic and social context			,		
Population (millions)	0.62	0.77	622		
Urban population (% of total)	28	28	30		
GNI per capita, World Bank Atlas method (\$)	620	820	626		
GDP growth, 2000–05 and 2005–14 (avg. annual %)	3.6	2.1	6.1		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	68 63	77 68	57 59		
Sector structure					
Separate telecommunications/ICT regulator	No	Yes			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	М	М			
Mobile telephone service	М	М			
Internet service	M No	M A			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		C			
Teg. treatment of voir (ballied, closed, no framework, allowed)					
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.0	5.7			
Telecommunications investment (% of revenue)	25.6				
Sector performance					
Access	2.0	2.1	0.0		
Fixed-telephone subscriptions (per 100 people)	2.8 2.6	3.1 50.9	0.9 57.2		
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	0.0	0.2	0.2		
Households with a computer (%)	3.0	7.6	4.5		
Households with Internet access at home (%)	0.8	4.2	4.2		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)		49.4	39.8		
Individuals using the Internet (%)	2.0	7.0	6.3		
Quality					
Population covered by a mobile-cellular network (%)	40				
International Internet bandwidth (bit/s per Internet user)	166	11,843	4,196		
Affordability		10.0	0.7		
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		10.0 13.5	8.7 11.7		
Fixed-broadband sub-basket (\$ a month)		80.2	44.9		
Trade					
ICT goods exports (% of total goods exports)	0.0				
ICT goods imports (% of total goods imports)	2.7		2.7		
ICT service exports (% of total service exports)		22.2	21.5		
Applications					
Online service index (0-1, 1=highest presence)	0.19	0.02	0.11		
Secure Internet servers (per million people)	4.8	1.3	1.2		

Congo, Dem. Rep.

Sub-Saharan Africa Low income

	Countr	Country data		Country data		Country data	Low- income group
-	2005	2014	2014				
Economic and social context							
Population (millions)	56	75	622				
Urban population (% of total)	37	42	30				
GNI per capita, World Bank Atlas method (\$)	200	380	626				
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.2	6.4	6.1				
Adult literacy rate (% ages 15 and older)	61	75	57				
Gross primary, secondary, tertiary school enrollment (%)	53	64	59				
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	М	М					
Internet service	M	M					
Foreign ownership (not allowed, restricted, allowed)	No	No					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	A					
Sector efficiency and capacity	3.3	3.4					
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.3 89.2	3.4 49.4					
Sector performance							
Access		0.0					
Fixed-telephone subscriptions (per 100 people)	0.0	0.0	0.9				
Mobile-cellular telephone subscriptions (per 100 people)	5.1	53.5	57.2				
Fixed-broadband subscriptions (per 100 people)		0.0	0.2				
Households with a computer (%)	0.2 0.2	1.9 2.0	4.5 4.2				
Households with Internet access at home (%)	0.2	2.0	4.2				
Usage	9.5	2.6					
Int'l. voice traffic, total (minutes/subscription/month)	51.2	31.7	39.8				
Domestic mobile traffic (minutes/subscription/month)	0.2	3.0	6.3				
Individuals using the Internet (%)	0.2	3.0	0.3				
Quality Population covered by a mobile-cellular network (%)	50	50					
International Internet bandwidth (bit/s per Internet user)	39	384	4,196				
international internet bandwidth (bity's per internet user)	33	304	4,130				
Affordability		9.9	8.7				
Fixed-telephone sub-basket (\$ a month)	••	9.9 11.9	8.7 11.7				
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		400.2	44.9				
Trade							
Irade ICT goods exports (% of total goods exports)							
ICT goods imports (% of total goods imports)			2.7				
ICT service exports (% of total service exports)	17.9	9.6	21.5				
Applications							
Applications							
Online service index (0-1, 1=highest presence)	0.22	0.05	0.11				

Congo, Rep.

Sub-Saharan Africa	Lower m	ower middle inc			wer middle i	
	Countr	y data	Lower middle- income group			
	2005	2014	2014			
Economic and social context						
Population (millions)	4	5	2,879			
Urban population (% of total)	61	65	39			
GNI per capita, World Bank Atlas method (\$)	980	2,710	2,012			
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.7	4.9	5.9			
Adult literacy rate (% ages 15 and older)		79	73			
Gross primary, secondary, tertiary school enrollment (%)	55	66	67			
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)	M	M				
Mobile telephone service	M	M				
Internet service	M	M				
Foreign ownership (not allowed, restricted, allowed)	No	R C				
Reg. treatment of VoIP (banned, closed, no framework, allowed)	ed) B	· ·				
Sector efficiency and capacity	0.7	3.2	0			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.7	23.4	2.3 19.8			
		20.4	15.0			
Sector performance						
Access	0.4	0.4	4.0			
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	15.8	108.1	87.			
Fixed-broadband subscriptions (per 100 people)		0.0	2.4			
Households with a computer (%)	1.4	4.9	17.0			
Households with Internet access at home (%)	0.1	1.9	18.3			
Usage						
Int'l. voice traffic, total (minutes/subscription/month)		9.5	8.8			
Domestic mobile traffic (minutes/subscription/month)		40.9	147.6			
Individuals using the Internet (%)	1.5	7.1	22.6			
Quality						
Population covered by a mobile-cellular network (%)	39	95	94			
International Internet bandwidth (bit/s per Internet user)	19	185	10,618			
Affordability						
Fixed-telephone sub-basket (\$ a month)			5.0			
Mobile-cellular sub-basket (\$ a month)			7.7			
Fixed-broadband sub-basket (\$ a month)			18.6			
Trade						
ICT goods exports (% of total goods exports)	0.0	0.0	6.2			
ICT goods imports (% of total goods imports)	1.0	0.6	8.0			
ICT service exports (% of total service exports)			51.1			
Applications						
Online service index (0-1, 1=highest presence)	0.27	0.10	0.24			
Secure Internet servers (per million people)	0.6	1.6	5.9			

Costa Rica

Latin America & Caribbean	Upper r	niddle	income
			Upper middle- income
		ry data	group
	2005	2014	2014
Economic and social context Population (millions)	4	5	2361
Urban population (% of total)	66	76	62
GNI per capita, World Bank Atlas method (\$)	4,890		7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.3	4.0	6.0
Adult literacy rate (% ages 15 and older)	95	97	94
Gross primary, secondary, tertiary school enrollment (%)	75	87	80
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	C	
Mobile telephone service	М	P	
Internet service	M	C	
Foreign ownership (not allowed, restricted, allowed)	R d) B	A No	
Reg. treatment of VoIP (banned, closed, no framework, allowed	і) Б	INO	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.3	2.6	2.4
Telecommunications investment (% of revenue)	25.8	33.1	19.7
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	32.1	17.8	17.6
Mobile-cellular telephone subscriptions (per 100 people)	25.5	143.8	
Fixed-broadband subscriptions (per 100 people)	1.0	10.4	
Households with a computer (%)	27.0	52.3	46.0
Households with Internet access at home (%)	10.2	55.1	45.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	19.2	7.9	1.6
Domestic mobile traffic (minutes/subscription/month)	152.2	103.1	293.4
Individuals using the Internet (%)	22.1	49.4	47.7
Quality			
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	86 687	 45,329	99 21,253
		,	,_00
Affordability Fixed-telephone sub-basket (\$ a month)		4.8	8.9
Mobile-cellular sub-basket (\$ a month)	••	4.0	0.9 12.4
Fixed-broadband sub-basket (\$ a month)		15.9	
Trade			
ICT goods exports (% of total goods exports)	23.7	21.9	18.0
ICT goods imports (% of total goods imports)	23.7	18.5	
ICT service exports (% of total service exports)	13.3	43.6	27.4
Applications			
Online service index (O-1 1=highest presence)	0.51	0.61	0.37

0.37

23.3

0.51

62.9

0.61

99.4

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

Côte d'Ivoire

Sub-Saharan Africa Lo	ower m	wer middle i			wer middle ir	
			Lower middle			
	Countr	y data	income			
-	2005	2014	group 2014			
Economic and social context						
Population (millions)	18	22	2,87			
Urban population (% of total)	47	53	3			
GNI per capita, World Bank Atlas method (\$)	940	1,460	2,01			
GDP growth, 2000-05 and 2005-14 (avg. annual %)	-0.2	3.4	5.			
Adult literacy rate (% ages 15 and older)	49	41	7.			
Gross primary, secondary, tertiary school enrollment (%)		54	6			
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)	М	М				
Mobile telephone service	М	М				
Internet service	М	М				
Foreign ownership (not allowed, restricted, allowed)	A	A				
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	No				
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.8	6.1	2.			
Telecommunications investment (% of revenue)	29.1	13.7	19.			
· · · · ·						
Sector performance Access						
Fixed-telephone subscriptions (per 100 people)	1.5	1.2	4.			
Mobile-cellular telephone subscriptions (per 100 people)	13.5	106.2	87.			
Fixed-broadband subscriptions (per 100 people)	0.0	0.3	2.			
Households with a computer (%)	1.3	7.2	17.			
Households with Internet access at home (%)	0.2	12.2	18.			
Usage						
Int'l. voice traffic, total (minutes/subscription/month)			8.			
Domestic mobile traffic (minutes/subscription/month)	106.4	71.7	147.			
Individuals using the Internet (%)	1.0	14.6	22.			
Quality		00				
Population covered by a mobile-cellular network (%)	55	98				
International Internet bandwidth (bit/s per Internet user)	307	5,163	10,61			
Affordability		40.0	-			
Fixed-telephone sub-basket (\$ a month)		19.8				
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		16.2 36.4	7. 18.			
· · · · ·						
Trade	0.6	0.1	6.			
ICT goods exports (% of total goods exports)	0.6	0.1				
ICT goods imports (% of total goods imports)	3.8 33.7	2.1 29.9	8. 51.			
ICT service exports (% of total service exports)						
ICT service exports (% of total service exports) Applications Online service index (0-1, 1=highest presence)	0.19	0.17	0.2			

Croatia

	Count	Country data		Country data		Country data		Country data	Country data	Country data	High- income group
-	2005	2014	2014								
Economic and social context											
Population (millions)	4	4	1,399								
Urban population (% of total)	56	59	81								
GNI per capita, World Bank Atlas method (\$)	9,870	13,020	38,317								
GDP growth, 2000–05 and 2005–14 (avg. annual %)	4.6	-0.8	1.1								
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	98 79	99 86	99 95								
Contractive											
Sector structure Separate telecommunications/ICT regulator	Yes	Yes									
Status of main fixed-line telephone operator	Mixed	Mixed									
Level of competition (competition, partial comp., monopoly)	WIIACU	WIIACU									
International gateway(s)	М	М									
Mobile telephone service	M	C									
Internet service	M	M									
Foreign ownership (not allowed, restricted, allowed)	A	Α									
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	A									
Sector efficiency and capacity											
Telecommunications revenue (% of GDP)	4.8	3.7	2.6								
Telecommunications investment (% of revenue)	14.5	20.0	16.8								
Sector performance Access											
Fixed-telephone subscriptions (per 100 people)	42.9	36.7	39.9								
Mobile-cellular telephone subscriptions (per 100 people)	83.2	104.4	123.3								
Fixed-broadband subscriptions (per 100 people)	2.6	23.0	28.0								
Households with a computer (%)	32.7	70.1	80.3								
Households with Internet access at home (%)	25.0	68.4	81.0								
Usage											
Int'l. voice traffic, total (minutes/subscription/month)	16.5	8.0									
Domestic mobile traffic (minutes/subscription/month)	65.7	145.4	188.0								
Individuals using the Internet (%)	33.1	68.6	80.6								
Quality											
Population covered by a mobile-cellular network (%)	100	100	100								
International Internet bandwidth (bit/s per Internet user)	3,280	58,034	131,821								
Affordability											
Fixed-telephone sub-basket (\$ a month)		14.3	23.7								
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		16.5 17.8	18.7 26.9								
Trade ICT goods exports (% of total goods exports)	2.6	1.4	8.2								
ICT goods imports (% of total goods imports)	6.1	5.4	10.5								
ICT service exports (% of total service exports)	12.5	12.7	30.3								
Applications											
Online service index (0-1, 1=highest presence)	0.57	0.46	0.67								
Secure Internet servers (per million people)	39.6	219.5	928.0								

Cuba

	ррсгп	oper middle in I n		
	Countr	ı	Country data	
	2005	2014	group 2014	
Economic and social context				
Population (millions)	11	11	2,361	
Urban population (% of total)	76	77	62	
GNI per capita, World Bank Atlas method (\$)	3,960	5,880	7,873	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.6	3.8	6.0	
Adult literacy rate (% ages 15 and older)	100	100	94	
Gross primary, secondary, tertiary school enrollment (%)	86	80	80	
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)	М	М		
Mobile telephone service	М	М		
Internet service	P	М		
Foreign ownership (not allowed, restricted, allowed)	R	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	A		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	2.9		2	
Telecommunications investment (% of revenue)	7.5		19.	
Sector performance				
Access				
Fixed-telephone subscriptions (per 100 people)	7.6	11.2	17.	
Mobile-cellular telephone subscriptions (per 100 people)	1.2	22.5	101.	
Fixed-broadband subscriptions (per 100 people)	0.0	0.0	11.	
Households with a computer (%) Households with Internet access at home (%)	0.2 0.0	12.9 4.1	46. 45.	
mouseholds with internet access at nome (%)	0.0	4.1	40.	
Usage	26.5	13.2	1.	
Int'l. voice traffic, total (minutes/subscription/month)	26.5 53.0	52.8	1.0 293.	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	9.7	30.0	293.4 47.1	
individuals using the internet (%)	9.1	30.0	41.	
Quality	71	05	0	
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	71 95	85 462	9: 21,25:	
international internet bandwidth (bit/s per internet user)	90	402	21,23	
Affordability		0.0		
Fixed-telephone sub-basket (\$ a month)		0.2	8.	
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		21.5 430.0	12.4 17.3	
Trade ICT goods exports (% of total goods exports)	0.9		18.	
	2.6		15.	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	2.6		27.4	
Annelles Alema				
Applications Online service index (0-1, 1=highest presence)	0.40	0.23	0.3	
Secure Internet servers (per million people)	0.40	0.23	23.	

Curação

	Countr	Country data		ا in ountry data	
-	2005	2014	group 2014		
Economic and social context					
Population (millions)	0.14	0.16	1,399		
Urban population (% of total)	91	89	81		
GNI per capita, World Bank Atlas method (\$)			38,317		
GDP growth, 2000-05 and 2005-14 (avg. annual %)			1.1		
Adult literacy rate (% ages 15 and older)			99		
Gross primary, secondary, tertiary school enrollment (%)		105	95		
Sector structure					
Separate telecommunications/ICT regulator	No	No			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	М	М			
Mobile telephone service	М	M			
Internet service	M	M			
Foreign ownership (not allowed, restricted, allowed)	No	No			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В			
Sector efficiency and capacity			0.0		
Telecommunications revenue (% of GDP)			2.6		
Telecommunications investment (% of revenue)			16.8		
Sector performance					
Access		20.0	20.0		
Fixed-telephone subscriptions (per 100 people)		38.9	39.9		
Mobile-cellular telephone subscriptions (per 100 people)	••	121.6	123.3 28.0		
Fixed-broadband subscriptions (per 100 people)		29.7			
Households with a computer (%)	••	62.7	80.3		
Households with Internet access at home (%)		53.2	81.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)			188.0		
Individuals using the Internet (%)			80.6		
Quality					
Population covered by a mobile-cellular network (%)			100		
International Internet bandwidth (bit/s per Internet user)			131,821		
Affordability					
Fixed-telephone sub-basket (\$ a month)			23.7		
Mobile-cellular sub-basket (\$ a month)			18.7		
Fixed-broadband sub-basket (\$ a month)	••		26.9		
Trade					
ICT goods exports (% of total goods exports)			8.2		
ICT goods imports (% of total goods imports)			10.5		
ICT service exports (% of total service exports)			30.3		
Applications					
Online service index (0-1, 1=highest presence)			0.67		
Secure Internet servers (per million people)		195.0	928.0		

Cyprus

	Count	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	1	1	1,399
Urban population (% of total)	68	67	81
GNI per capita, World Bank Atlas method (\$)	23,580	26,370 0.1	38,317 1.1
GDP growth, 2000–05 and 2005–14 (avg. annual %) Adult literacy rate (% ages 15 and older)	3.5 97	99	99
Gross primary, secondary, tertiary school enrollment (%)	78	79	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)	M	С	
Mobile telephone service	Р	Р	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	А	
Sector efficiency and capacity	0.7	0.4	0.0
Telecommunications revenue (% of GDP)	2.7	3.1	2.6
Telecommunications investment (% of revenue)	15.0	10.8	16.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	40.7	28.4	39.9
Mobile-cellular telephone subscriptions (per 100 people)	75.8	96.3	123.3
Fixed-broadband subscriptions (per 100 people)	3.1	21.1	28.0
Households with a computer (%)	46.0	74.0	80.3
Households with Internet access at home (%)	31.7	68.6	81.0
Usage Int'l. voice traffic, total (minutes/subscription/month)	57.5	34.7	
Domestic mobile traffic (minutes/subscription/month)	174.0	226.6	188.0
Individuals using the Internet (%)	32.8	69.3	80.6
mulviduals using the internet (w)	32.0	05.5	00.0
Quality Population covered by a mobile-cellular network (%)	100	100	100
International Internet bandwidth (bit/s per Internet user)	1,328		131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		24.1	23.7
Mobile-cellular sub-basket (\$ a month)		8.1	18.7
Fixed-broadband sub-basket (\$ a month)		21.1	26.9
Trade			
ICT goods exports (% of total goods exports)	25.0	3.9	8.2
ICT goods imports (% of total goods imports)	10.8	4.4	10.5
ICT service exports (% of total service exports)	21.1	15.4	30.3
Applications			
Online service index (0-1, 1=highest presence)	0.60	0.47	0.67
Secure Internet servers (per million people)	175.3	606.8	928.0

Czech Republic

	Country data		High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	10	11	1,399
Urban population (% of total)	74		81
GNI per capita, World Bank Atlas method (\$)	12,380	,	38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	3.8	1.1	1.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	 83	 91	99 95
	00	31	
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	М	
Mobile telephone service	C	P	
Internet service	C		
Foreign ownership (not allowed, restricted, allowed)	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	. A	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.6		2.6
Telecommunications investment (% of revenue)	11.7	21.0	16.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	31.4	17.6	39.9
Mobile-cellular telephone subscriptions (per 100 people)	115.1		123.3
Fixed-broadband subscriptions (per 100 people)	6.9		28.0
Households with a computer (%)	30.0		80.3
Households with Internet access at home (%)	19.1		81.0
Usage Int'l. voice traffic, total (minutes/subscription/month)	7.4	10.2	
Domestic mobile traffic (minutes/subscription/month)	50.3		188.0
Individuals using the Internet (%)	35.3		80.6
marriada doing the internet (%)	00.0	10.1	00.0
Quality	100	100	100
Population covered by a mobile-cellular network (%)	100		100
International Internet bandwidth (bit/s per Internet user)	13,620	116,806	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		26.5	23.7
Mobile-cellular sub-basket (\$ a month)		25.0	18.7
Fixed-broadband sub-basket (\$ a month)		20.6	26.9
Trade			
ICT goods exports (% of total goods exports)	11.1	13.1	8.2
ICT goods imports (% of total goods imports)	11.2	13.7	10.5
ICT service exports (% of total service exports)	24.4	32.0	30.3
Applications			
Online service index (0-1, 1=highest presence)	0.67	0.37	0.67
Secure Internet servers (per million people)	41.6		928.0
TTTTT poor or (por minor poopio)	.1.0	001.0	020.0

Denmark

	Count	Country data	
	2005	2014	group 2014
Economic and social context Population (millions)	5	6	1,399
Urban population (% of total)	86		81
GNI per capita, World Bank Atlas method (\$)	49,620	61,310	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.3	-0.2	1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)	103	106	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	M	
Mobile telephone service	P		
Internet service	C	M	
Foreign ownership (not allowed, restricted, allowed)	A A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	А	
Sector efficiency and capacity	0.5	4.0	0.0
Telecommunications revenue (% of GDP)	2.5		2.6
Telecommunications investment (% of revenue)	17.2	17.1	16.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	61.8	33.3	39.9
Mobile-cellular telephone subscriptions (per 100 people)	100.6	126.0	123.3
Fixed-broadband subscriptions (per 100 people)	24.8	41.4	28.0
Households with a computer (%)	84.0	95.0	80.3
Households with Internet access at home (%)	74.9	93.1	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		17.9	
Domestic mobile traffic (minutes/subscription/month)	99.1	136.6	188.0
Individuals using the Internet (%)	82.7	96.0	80.6
Quality			
Population covered by a mobile-cellular network (%)		100	100
International Internet bandwidth (bit/s per Internet user)	42,041	341,706	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		29.2	23.7
Mobile-cellular sub-basket (\$ a month)		9.9	18.7
Fixed-broadband sub-basket (\$ a month)		47.0	26.9
Trade			
ICT goods exports (% of total goods exports)	5.0	3.3	8.2
ICT goods imports (% of total goods imports)	10.3		10.5
ICT service exports (% of total service exports)			30.3
Annlications			
Applications Online service index (0-1, 1=highest presence)	0.91	0.66	0.67
Secure Internet servers (per million people)		2,080.8	928.0
		,	

Djibouti

Middle East & North Africa	Lower m	niddle	income			
					middle	Lower middle
	Countr	y data	income			
	2005	2014	2014			
Economic and social context						
Population (millions)	0.78	0.88	2,879			
Urban population (% of total)	77	77	39			
GNI per capita, World Bank Atlas method (\$)	1,030		2,012			
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.0	4.8	5.9			
Adult literacy rate (% ages 15 and older)			73			
Gross primary, secondary, tertiary school enrollment (%)	25	37	67			
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	M				
Mobile telephone service	M	M				
Internet service	M	M				
Foreign ownership (not allowed, restricted, allowed)	No	No				
Reg. treatment of VoIP (banned, closed, no framework, allowed	i) B	С				
Sector efficiency and capacity						
Telecommunications revenue (% of GDP)	4.8		2.3			
Telecommunications investment (% of revenue)	25.6		19.8			
Sector performance						
Access						
Fixed-telephone subscriptions (per 100 people)	1.4	2.5	4.0			
Mobile-cellular telephone subscriptions (per 100 people)	5.7	32.4	87.1			
Fixed-broadband subscriptions (per 100 people)	0.0	2.3	2.4			
Households with a computer (%)	6.8	18.0	17.0			
Households with Internet access at home (%)	0.6	7.1	18.3			
Usage			0.1			
Int'l. voice traffic, total (minutes/subscription/month)	50.2		8.8 147.0			
Domestic mobile traffic (minutes/subscription/month)						
Individuals using the Internet (%)	1.0	10.7	22.0			
Quality Population covered by a mobile-cellular network (%)	75	95	94			
International Internet bandwidth (bit/s per Internet user)	6.076	8,955	10,618			
international internet bandwidth (bit/s per internet user)	0,070	8,955	10,618			
Affordability Fixed-telephone sub-basket (\$ a month)		6.9	5.0			
Mobile-cellular sub-basket (\$ a month)		13.2	7.			
Fixed-broadband sub-basket (\$ a month)		31.6	18.0			
Trade						
ICT goods exports (% of total goods exports)			6.2			
ICT goods imports (% of total goods imports)			8.0			
ICT service exports (% of total service exports)	5.1		51.1			
Applications						
Online service index (0-1, 1=highest presence)	0.23	0.06	0.24			
Secure Internet servers (per million people)	1.3	10.3	5.9			

Dominica

Latin America & Caribbean	Upper r	niadie	Upper	
	Count	Country data	n i Country data	middle income
	2005	2014	group 2014	
Economic and social context				
Population (millions)	0.07	0.07	2,363	
Urban population (% of total)	67	69	62	
GNI per capita, World Bank Atlas method (\$)	5,140	7,070	,	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.3	1.6	6.0	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)			9. 81	
aross primary, secondary, tertary school emoliment (10)				
Sector structure				
Separate telecommunications/ICT regulator	Yes			
Status of main fixed-line telephone operator	Mixed	Mixed		
Level of competition (competition, partial comp., monopoly)	М	0		
International gateway(s) Mobile telephone service	M M	C		
Internet service	M	C		
Foreign ownership (not allowed, restricted, allowed)	R			
Reg. treatment of VoIP (banned, closed, no framework, allower		No		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	8.9	6.8	2.	
Telecommunications investment (% of revenue)	18.0			
Sector performance				
Access				
Fixed-telephone subscriptions (per 100 people)	26.9	24.3	17.	
Mobile-cellular telephone subscriptions (per 100 people)	73.7	127.5		
Fixed-broadband subscriptions (per 100 people)	4.8	15.8		
Households with a computer (%)				
Households with Internet access at home (%)		37.0	45.	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	41.2	14.6	1.	
Domestic mobile traffic (minutes/subscription/month)	38.4			
Individuals using the Internet (%)	38.5	62.9	47.	
Quality				
Population covered by a mobile-cellular network (%)		90		
International Internet bandwidth (bit/s per Internet user)	1,407	109,954	21,25	
Affordability				
Fixed-telephone sub-basket (\$ a month)		12.1	8.	
Mobile-cellular sub-basket (\$ a month)		16.7		
Fixed-broadband sub-basket (\$ a month)		37.9	17.	
Trade				
ICT goods exports (% of total goods exports)	0.2	7.8	18.	
ICT goods imports (% of total goods imports)	8.3	4.3	15.	
ICT service exports (% of total service exports)	25.9	21.0	27.	
Applications				
Online service index (0-1, 1=highest presence)	0.37	0.19	0.3	
Secure Internet servers (per million people)	113.4	428.5	23.	

Dominican Republic

Latin America & Caribbean Upper middle inco				
	Count	ry data	Upper middle income group	
	2005	2014	2014	
Economic and social context				
Population (millions)	9	10	2,36	
Jrban population (% of total)	67	78	6	
GNI per capita, World Bank Atlas method (\$)	2,900	6,030	7,87	
GDP growth, 2000–05 and 2005–14 (avg. annual %)	3.1	4.8	6.	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	88	91 77	9.	
aross primary, secondary, tertiary school enrollment (%)		11	0	
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	C P		
Mobile telephone service	M M	C		
Internet service	IVI A	A		
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		A		
(Samisa, Sissa, Inc. Inc. Inc. Inc. Inc. Inc. Inc. Inc.				
Sector efficiency and capacity				
	0.4	0.4		
elecommunications revenue (% of GDP)	0.4	3.1		
	0.4 192.0	3.1 15.7	2. 19.	
elecommunications revenue (% of GDP)				
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access	192.0	15.7	19.	
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access rixed-telephone subscriptions (per 100 people)	192.0 9.6	15.7	19.	
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	9.6 38.8	15.7 11.6 78.9	19. 17. 101.	
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access rixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) rixed-broadband subscriptions (per 100 people)	9.6 38.8 0.6	15.7 11.6 78.9 5.7	17. 101. 11.	
relecommunications revenue (% of GDP) relecommunications 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 (%)	9.6 38.8 0.6 8.7	15.7 11.6 78.9 5.7 26.2	17. 101. 11. 46.	
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access rixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) rixed-broadband subscriptions (per 100 people)	9.6 38.8 0.6	15.7 11.6 78.9 5.7	17. 101. 11. 46.	
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access rixed-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 (%) Usage	9.6 38.8 0.6 8.7	15.7 11.6 78.9 5.7 26.2 21.1	17. 101. 11. 46. 45.	
relecommunications revenue (% of GDP) relecommunications 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 (%) Usage nt'l. voice traffic, total (minutes/subscription/month)	9.6 38.8 0.6 8.7	15.7 11.6 78.9 5.7 26.2 21.1	17. 101. 11. 46. 45.	
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access rixed-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 (%) Usage nt'l. voice traffic, total (minutes/subscription/month) Comestic mobile traffic (minutes/subscription/month)	9.6 38.8 0.6 8.7 3.1	15.7 11.6 78.9 5.7 26.2 21.1 13.1 27.3	17. 101. 11. 46. 45.	
relecommunications revenue (% of GDP) relecommunications 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 (%) Usage nt'l. voice traffic, total (minutes/subscription/month)	9.6 38.8 0.6 8.7 3.1	15.7 11.6 78.9 5.7 26.2 21.1	17. 101. 11. 46. 45.	
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access rixed-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 (%) Usage nt'I. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	9.6 38.8 0.6 8.7 3.1	15.7 11.6 78.9 5.7 26.2 21.1 13.1 27.3	17. 101. 11. 46. 45.	
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access rixed-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 (%) Usage nt'l. voice traffic, total (minutes/subscription/month) Comestic mobile traffic (minutes/subscription/month)	9.6 38.8 0.6 8.7 3.1	15.7 11.6 78.9 5.7 26.2 21.1 13.1 27.3	17. 101. 11. 46. 45.	
relecommunications revenue (% of GDP) relecommunications 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 (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	9.6 38.8 0.6 8.7 3.1	15.7 11.6 78.9 5.7 26.2 21.1 13.1 27.3 49.6	17. 101. 11. 46. 45. 1. 293. 47.	
relecommunications revenue (% of GDP) relecommunications 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 (%) Usage nt'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	9.6 38.8 0.6 8.7 3.1 11.5	15.7 11.6 78.9 5.7 26.2 21.1 13.1 27.3 49.6	17. 101. 11. 46. 45. 1. 293. 47.	
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access rixed-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 (%) Usage nt'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	9.6 38.8 0.6 8.7 3.1 11.5	15.7 11.6 78.9 5.7 26.2 21.1 13.1 27.3 49.6	19. 17. 101. 11. 46. 45. 1. 293. 47.	
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access rixed-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 (%) Usage nt'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month)	9.6 38.8 0.6 8.7 3.1 11.5	15.7 11.6 78.9 5.7 26.2 21.1 13.1 27.3 49.6 97 24,903	19. 17. 101. 11. 46. 45. 1. 293. 47.	
relecommunications revenue (% of GDP) relecommunications investment (% of revenue) Sector performance Access rixed-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 (%) Usage nt'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	9.6 38.8 0.6 8.7 3.1 11.5	15.7 11.6 78.9 5.7 26.2 21.1 13.1 27.3 49.6 97 24,903	19. 17. 101. 11. 46. 45. 293. 47. 9 21,25 8. 12.	
relecommunications revenue (% of GDP) relecommunications 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 (%) Usage nt'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	9.6 38.8 0.6 8.7 3.1 11.5	15.7 11.6 78.9 5.7 26.2 21.1 13.1 27.3 49.6 97 24,903 15.2 13.6	19. 17. 101. 11. 46. 45. 293. 47. 9 21,25 8. 12.	
relecommunications revenue (% of GDP) relecommunications 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 (%) Usage nt'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	9.6 38.8 0.6 8.7 3.1 11.5	15.7 11.6 78.9 5.7 26.2 21.1 13.1 27.3 49.6 97 24,903 15.2 13.6	19. 17. 101. 11. 46. 45. 1. 293. 47. \$ 21,25	
relecommunications revenue (% of GDP) relecommunications 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 (%) Usage nt'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)	9.6 38.8 0.6 8.7 3.1 11.5	15.7 11.6 78.9 5.7 26.2 21.1 13.1 27.3 49.6 97 24,903 15.2 13.6 21.3		

0.37

23.3

0.39

28.3

0.49

5.6

Applications

Online service index (0-1, 1=highest presence)

Secure Internet servers (per million people)

Ecuador

Latin America & Caribbean	Upper n	pper middle income			
	Count	Country data		Country data	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	14	16	2,363		
Urban population (% of total)	62	64	62		
GNI per capita, World Bank Atlas method (\$)	2,900	6,070	7,873		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.8	4.3	6.0		
Adult literacy rate (% ages 15 and older)	84	93	94		
Gross primary, secondary, tertiary school enrollment (%)		84	80		
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	M			
Mobile telephone service	P	M			
Internet service	C A	M A			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		A			
Leatment of voir (banned, closed, no framework, anower	1) NO				
Sector efficiency and capacity	2.4	2.0	0		
Telecommunications revenue (% of GDP)	3.4	3.2	2.4		
Telecommunications investment (% of revenue)		10.3	19.1		
Sector performance					
Access	40.0	45.0	47.		
Fixed-telephone subscriptions (per 100 people)	12.2	15.3			
Mobile-cellular telephone subscriptions (per 100 people)	45.3	103.9			
Fixed-broadband subscriptions (per 100 people)	0.2 17.9	7.8 38.0			
Households with a computer (%) Households with Internet access at home (%)	2.5	32.0			
Troubeniolas with internet access at nome (%)	2.0	02.0	10.0		
Usage		2.7	4		
Int'l. voice traffic, total (minutes/subscription/month)		3.7			
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	6.0	80.3 43.0			
individuals using the internet (%)	0.0	43.0	41.		
Quality	00	0.7	0.		
Population covered by a mobile-cellular network (%)	80	97			
International Internet bandwidth (bit/s per Internet user)	2,422	48,329	21,25		
Affordability					
Fixed-telephone sub-basket (\$ a month)		6.9			
Mobile-cellular sub-basket (\$ a month)		17.2			
Fixed-broadband sub-basket (\$ a month)		20.2	17.		
Trade					
ICT goods exports (% of total goods exports)	0.2	0.1	18.0		
ICT goods imports (% of total goods imports)	11.1	6.6	15.		
ICT service exports (% of total service exports)			27.		
Applications					
Online service index (0-1, 1=highest presence)	0.48	0.48	0.3		
Secure Internet servers (per million people)	3.9	34.5	23.		

Egypt, Arab Rep.

Middle East &	North Africa	Lower n

Middle East & North Africa	Lower middle income				
	Countr	Country data		giv	
	2005	2014	2014		
Economic and social context					
Population (millions)	75	90	2,879		
Urban population (% of total)	43	43	39		
GNI per capita, World Bank Atlas method (\$)	1,240	3,050	2,012		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.4	4.3	5.9		
Adult literacy rate (% ages 15 and older)	71	75	73		
Gross primary, secondary, tertiary school enrollment (%)	76	83	67		
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	P			
Mobile telephone service	Р	С			
Internet service	С	С			
Foreign ownership (not allowed, restricted, allowed)	Α	Α			
Reg. treatment of VoIP (banned, closed, no framework, allower	d) No	С			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	3.8	2.3	2.3		
Telecommunications investment (% of revenue)	35.2	30.5	19.8		
Sector performance					
Access	445	7.0	4.0		
Fixed-telephone subscriptions (per 100 people)	14.5	7.6	4.0		
Mobile-cellular telephone subscriptions (per 100 people)	19.0	114.3	87.1		
Fixed-broadband subscriptions (per 100 people)	0.2	3.7 45.1	2.4 17.0		
Households with a computer (%) Households with Internet access at home (%)	 15.3	36.8	18.3		
Households with internet decess at nome (70)	13.3	30.0	10.5		
Usage Int'l. voice traffic, total (minutes/subscription/month)	7.6	7.1	8.8		
Domestic mobile traffic (minutes/subscription/month)	36.0	7.1	147.6		
Individuals using the Internet (%)	12.8	31.7	22.6		
Quality	00	100	0.4		
Population covered by a mobile-cellular network (%)	92	100	94		
International Internet bandwidth (bit/s per Internet user)	413	9,302	10,618		
Affordability					
Fixed-telephone sub-basket (\$ a month)		2.6	5.0		
Mobile-cellular sub-basket (\$ a month)		5.4			
Fixed-broadband sub-basket (\$ a month)		6.5	18.6		
Trade	0.4	0.1			
ICT goods exports (% of total goods exports)	0.1	0.4	6.2		
ICT goods imports (% of total goods imports)	4.4	3.6	8.0		
ICT service exports (% of total service exports)	13.2	10.5	51.1		
Applications					
Online service index (0-1, 1=highest presence)	0.48	0.59	0.24		
Secure Internet servers (per million people)	0.5	4.8	5.9		

El Salvador

Latin America & Caribbean L	ower n	niddle	income		
	Counti	Country data		Lo mi inc Country data	
	2005	2014	2014		
Economic and social context					
Population (millions)	6	6	2,879		
Urban population (% of total)	62	66	39		
GNI per capita, World Bank Atlas method (\$)	2,870	3,950	2,012		
GDP growth, 2000–05 and 2005–14 (avg. annual %)	2.3	1.3	5.9		
Adult literacy rate (% ages 15 and older)	84	87	73		
Gross primary, secondary, tertiary school enrollment (%)	72	70	67		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Mixed	Mixed			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	M	М			
Mobile telephone service	C	M M			
Internet service Foreign ownership (not allowed, restricted, allowed)	A	A A			
Reg. treatment of VoIP (banned, closed, no framework, allowed		No.			
	, 110	110			
Sector efficiency and capacity		2.0	0.1		
Telecommunications revenue (% of GDP)	4.1 13.6	3.8 17.7	2.3 19.8		
Telecommunications investment (% of revenue)	13.0	11.1	19.0		
Sector performance					
Access	400	440			
Fixed-telephone subscriptions (per 100 people)	16.0	14.9	4.0		
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	39.7 0.7	144.0 4.5	87.1 2.4		
Households with a computer (%)	7.4	25.2	17.0		
Households with Internet access at home (%)	2.1	23.3	18.3		
Hoose					
Usage Int'l. voice traffic, total (minutes/subscription/month)		27.5	8.8		
Domestic mobile traffic (minutes/subscription/month)	33.2	86.9	147.6		
Individuals using the Internet (%)	4.2a	29.7	22.6		
Quality Population covered by a mobile-cellular network (%)	95		94		
International Internet bandwidth (bit/s per Internet user)	608	50,309	10,618		
Affordability Fixed-telephone sub-basket (\$ a month)		10.8	5.0		
Mobile-cellular sub-basket (\$ a month)		17.9	7.7		
Fixed-broadband sub-basket (\$ a month)		15.8	18.6		
Trade					
Trade ICT goods exports (% of total goods exports)	0.2	0.4	6.2		
ICT goods exports (% of total goods imports)	3.6	5.0	8.0		
ICT service exports (% of total service exports)	8.4	9.5	51.1		
Applications Online service index (0-1, 1=highest presence)	0.50	0.54	0.24		
Secure Internet servers (per million people)	6.2	22.1	5.9		

Equatorial Guinea

	Count	Country data		Country data		Country data	High- income
	2005	2014	group 2014				
Economic and social context							
Population (millions)	0.63	0.82	1,399				
Urban population (% of total)	39	40	81				
GNI per capita, World Bank Atlas method (\$)	4,660	12,640	38,317				
GDP growth, 2000-05 and 2005-14 (avg. annual %)	27.1	1.4	1.1				
Adult literacy rate (% ages 15 and older)	88	95	99 95				
Gross primary, secondary, tertiary school enrollment (%)			95				
Sector structure	N.	V					
Separate telecommunications/ICT regulator	No	Yes					
Status of main fixed-line telephone operator	Mixed	Mixed					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)	M	M					
Mobile telephone service Internet service	M M	M C					
Foreign ownership (not allowed, restricted, allowed)	No.	R					
Reg. treatment of VoIP (banned, closed, no framework, allowed)		No.					
Sector efficiency and capacity Telecommunications revenue (% of GDP)			2.6				
Telecommunications investment (% of revenue)			16.8				
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 (%)	1.7 16.1 0.0 	1.9 66.4 0.5 18.0 8.5	39.9 123.3 28.0 80.3 81.0				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)							
Domestic mobile traffic (minutes/subscription/month)			188.0				
Individuals using the Internet (%)	1.1	18.9	80.6				
Quality							
Population covered by a mobile-cellular network (%)			100				
International Internet bandwidth (bit/s per Internet user)	2,421	1,452	131,821				
Affordability							
Fixed-telephone sub-basket (\$ a month)		19.1	23.7				
Mobile-cellular sub-basket (\$ a month)		29.3	18.7				
Fixed-broadband sub-basket (\$ a month)		242.9	26.9				
Trade							
ICT goods exports (% of total goods exports)			8.2				
ICT goods imports (% of total goods imports)			10.5				
ICT service exports (% of total service exports)			30.3				
Applications							
Online service index (0-1, 1=highest presence)	0.29	0.03	0.67				
Secure Internet servers (per million people)		3.7	928.0				

Eritrea

Sub-Saharan Africa Low income

	Country data		Low- income group
-	2005	2014	2014
Economic and social context			
Population (millions)	4	5	622
Urban population (% of total)	19	22	30
GNI per capita, World Bank Atlas method (\$)	260	680	626
GDP growth, 2000–05 and 2005–14 (avg. annual %)	1.9	2.0	6.1
Adult literacy rate (% ages 15 and older)	53	72	57
Gross primary, secondary, tertiary school enrollment (%)			59
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M	M	
Mobile telephone service	P	M	
Internet service	P	M	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity	0.4		
Telecommunications revenue (% of GDP)	3.1	2.9	
Telecommunications investment (% of revenue)	57.6	42.9	
Sector performance			
Access		4.0	0.0
Fixed-telephone subscriptions (per 100 people)	0.8	1.0	0.9
Mobile-cellular telephone subscriptions (per 100 people)	0.8	6.4	57.2
Fixed-broadband subscriptions (per 100 people)	0.2	0.0	0.2 4.5
Households with a computer (%)		2.3	
Households with Internet access at home (%)	0.2	1.5	4.2
Usage		07.4	
Int'l. voice traffic, total (minutes/subscription/month)		67.4	
Domestic mobile traffic (minutes/subscription/month)	81.4	11.3	39.8
Individuals using the Internet (%)	0.4	1.0	6.3
Quality			
Population covered by a mobile-cellular network (%)	2	92	
International Internet bandwidth (bit/s per Internet user)	562	1,391	4,196
Affordability			
Fixed-telephone sub-basket (\$ a month)		4.6	8.7
Mobile-cellular sub-basket (\$ a month)		13.0	11.7
Fixed-broadband sub-basket (\$ a month)		1,596.5	44.9
Trade			
ICT goods exports (% of total goods exports)	0.2		
ICT goods imports (% of total goods imports)	3.0		2.7
ICT service exports (% of total service exports)			21.5
Applications			
Online service index (0-1, 1=highest presence)	0.20	0.00	0.11
Secure Internet servers (per million people)			1.2

Estonia

	Count	Country data		Country data		Country data		Country data i	Country data	High- income group
-	2005	2014	2014							
Economic and social context										
Population (millions)	1	1	1,399							
Urban population (% of total)	69	68	81							
GNI per capita, World Bank Atlas method (\$)	9,720	18,530	38,317							
GDP growth, 2000–05 and 2005–14 (avg. annual %)	7.0	0.6	1.1							
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	100 95	100 98	99 95							
Sector structure										
Separate telecommunications/ICT regulator	Yes	Yes								
Status of main fixed-line telephone operator	Mixed	Mixed								
Level of competition (competition, partial comp., monopoly)										
International gateway(s)	С	М								
Mobile telephone service	С	М								
Internet service	C	M								
Foreign ownership (not allowed, restricted, allowed)	A A	A A								
Reg. treatment of VoIP (banned, closed, no framework, allowed)	Α	А								
Sector efficiency and capacity Telecommunications revenue (% of GDP)	5.4	3.6	2.6							
Telecommunications investment (% of revenue)	8.2	14.2	16.8							
Sector performance Access	00.4	04.7	22.2							
Fixed-telephone subscriptions (per 100 people)	33.4	31.7 160.7	39.9 123.3							
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	109.1 13.5	27.4	28.0							
Households with a computer (%)	43.0	82.5	80.3							
Households with Internet access at home (%)	38.7	82.9	81.0							
, ,	30.1	02.0	01.0							
Usage Int'l. voice traffic, total (minutes/subscription/month)	6.9	9.5								
Domestic mobile traffic (minutes/subscription/month)	75.0	125.0	188.0							
Individuals using the Internet (%)	61.5	84.2	80.6							
Quality										
Population covered by a mobile-cellular network (%)	99	100	100							
International Internet bandwidth (bit/s per Internet user)	5,895	28,665	131,821							
Affordability		10.1	22.7							
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		12.1 23.1	23.7 18.7							
Fixed-broadband sub-basket (\$ a month)		21.2	26.9							
Trade										
ICT goods exports (% of total goods exports)	17.0	11.6	8.2							
ICT goods imports (% of total goods imports)	13.0	10.7	10.5							
ICT service exports (% of total service exports)	17.2	26.8	30.3							
Applications	0.70	0.77	0.07							
Online service index (0-1, 1=highest presence)	0.76	0.77	0.67							
Secure Internet servers (per million people)	101.1	927.2	928.0							

Ethiopia

Sub-Saharan Africa Low income

	Countr	Country data		in ountry data	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	77	97	622		
Urban population (% of total)	16	19	30		
GNI per capita, World Bank Atlas method (\$)	160	550	626		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.6	10.5	6.1		
Adult literacy rate (% ages 15 and older)	30		57		
Gross primary, secondary, tertiary school enrollment (%)	43		59		
Sector structure	.,				
Separate telecommunications/ICT regulator	Yes	No			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	M	M			
Mobile telephone service	M	M			
Internet service	M	M			
Foreign ownership (not allowed, restricted, allowed)	No	No			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	С			
Sector efficiency and capacity	2.1	1.6			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	82.1	36.2			
- Telecommunications investment (% of revenue)	02.1	30.2			
Sector performance					
Access Fixed-telephone subscriptions (per 100 people)	0.8	0.8	0.9		
Mobile-cellular telephone subscriptions (per 100 people)	0.5	31.6	57.2		
Fixed-broadband subscriptions (per 100 people)	0.0	0.5	0.2		
Households with a computer (%)	0.2	2.8	4.5		
Households with Internet access at home (%)	0.0	2.9	4.2		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	13.5	3.1			
Domestic mobile traffic (minutes/subscription/month)	90.9	55.8	39.8		
Individuals using the Internet (%)	0.2	2.9	6.3		
Quality					
Population covered by a mobile-cellular network (%)	10	73			
International Internet bandwidth (bit/s per Internet user)	347	5,002	4,196		
Affordability					
Fixed-telephone sub-basket (\$ a month)		0.9	8.7		
Mobile-cellular sub-basket (\$ a month)		3.5	11.7		
Fixed-broadband sub-basket (\$ a month)		21.6	44.9		
Trade		_			
ICT goods exports (% of total goods exports)	0.0	0.1			
ICT goods imports (% of total goods imports)	7.0	3.3	2.7		
ICT service exports (% of total service exports)	10.9	6.5	21.5		
Applications	0.46	0.45	0.44		
Online service index (0-1, 1=highest presence)	0.19	0.46	0.11		
Secure Internet servers (per million people)	0.0	0.2	1.2		

Faeroe Islands

	Count	Country data		Country data		Country data	Country data		Country data	High- income
-	2005	2014	group 2014							
Economic and social context										
Population (millions)	0.05	0.05	1,399							
Urban population (% of total)	40	42	81							
GNI per capita, World Bank Atlas method (\$)			38,317							
GDP growth, 2000-05 and 2005-14 (avg. annual %)			1.1							
Adult literacy rate (% ages 15 and older)			99							
Gross primary, secondary, tertiary school enrollment (%)			95							
Sector structure										
Separate telecommunications/ICT regulator	No	No								
Status of main fixed-line telephone operator	Public	Public								
Level of competition (competition, partial comp., monopoly)										
International gateway(s)	M	M								
Mobile telephone service	M	M								
Internet service	M	M								
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	No B	No B								
reg. treatment of voir (banned, closed, no framework, allowed)	D	D								
Sector efficiency and capacity	3.5		2.6							
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.3		16.8							
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 (%)	48.5 85.5 11.9 	35.0 124.1 35.0 	39.9 123.3 28.0 80.3 81.0							
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 73.1 67.9	 122.4 94.7	 188.0 80.6							
Quality										
Population covered by a mobile-cellular network (%)	100	100	100							
International Internet bandwidth (bit/s per Internet user)	4,793		131,821							
Affordability										
Fixed-telephone sub-basket (\$ a month)			23.7							
Mobile-cellular sub-basket (\$ a month)			18.7							
Fixed-broadband sub-basket (\$ a month)			26.9							
Trade										
ICT goods exports (% of total goods exports)	0.0		8.2							
ICT goods imports (% of total goods imports)	4.3		10.5							
ICT service exports (% of total service exports)	30.1	25.8	30.3							
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	 62.4	 1,656.6	0.67 928.0							



East Asia & Pacific Upper middle i			income
	Count	ry data	Upper middle- income
	2005	2014	group 2014
Farmania and assist contact	2003	2017	2017
Economic and social context Population (millions)	0.82	0.89	2,361
Urban population (% of total)	50	53	62
GNI per capita, World Bank Atlas method (\$)	3,590	4,540	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.6	1.6	6.0
Adult literacy rate (% ages 15 and older)			94
Gross primary, secondary, tertiary school enrollment (%)	78		80
Sector structure			
Separate telecommunications/ICT regulator	No	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s) Mobile telephone service	M M	M M	
Internet service	M	M M	
Foreign ownership (not allowed, restricted, allowed)	No	No.	
Reg. treatment of VoIP (banned, closed, no framework, allowed		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.7		2.4
Telecommunications investment (% of revenue)	20.2		19.7
Sector performance			
Access	40.7	0.4	47.0
Fixed-telephone subscriptions (per 100 people)	13.7	8.4 98.8	17.6 101.4
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	24.9 0.9	1.4	101.4
Households with a computer (%)	13.0	36.7	46.0
Households with Internet access at home (%)	8.0	29.0	45.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			1.6
Domestic mobile traffic (minutes/subscription/month)			293.4
Individuals using the Internet (%)	8.5	41.8	47.7
Quality			
Population covered by a mobile-cellular network (%)	60		99
International Internet bandwidth (bit/s per Internet user)	1,036	13,946	21,253
Affordability		0.0	0.0
Fixed-telephone sub-basket (\$ a month)		9.9 20.5	8.9 12.4
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		20.5 19.0	17.3
Trade			
ICT goods exports (% of total goods exports)	0.3	0.8	18.0
ICT goods imports (% of total goods imports)	4.7	3.7	15.1
ICT service exports (% of total service exports)	5.4	4.4	27.4
Applications			
Online service index (0-1, 1=highest presence)	0.42	0.39	0.37
Secure Internet servers (per million people)	8.5	41.7	23.3

Finland

	Count	Country data		Hi inc Country data gre	
	2005	2014	2014		
Economic and social context					
Population (millions)	5	5	1,399		
Urban population (% of total)	83	84	81		
GNI per capita, World Bank Atlas method (\$)	40,100	,	38,317		
GDP growth, 2000–05 and 2005–14 (avg. annual %)	2.6		1.1		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	101	115	99 95		
Sector structure					
Separate telecommunications/ICT regulator	Yes				
Status of main fixed-line telephone operator	Mixed	Mixed			
Level of competition (competition, partial comp., monopoly)		•			
International gateway(s)	M	C			
Mobile telephone service	M M	C C			
Internet service	A A	A			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed		A			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	2.6	1.8	2.6		
Telecommunications investment (% of revenue)	9.8	15.6	16.8		
Sector performance					
Access Fixed-telephone subscriptions (per 100 people)	40.4	11.7	39.9		
Mobile-cellular telephone subscriptions (per 100 people)	100.5	139.7	123.3		
Fixed-broadband subscriptions (per 100 people)	22.4	32.3	28.0		
Households with a computer (%)	63.9	91.9	80.3		
Households with Internet access at home (%)	54.1	89.8	81.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)	171.5		188.0		
Individuals using the Internet (%)	74.5	92.4	80.6		
Quality	99	100	100		
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)		218,744			
Affordability					
Fixed-telephone sub-basket (\$ a month)		34.5	23.7		
Mobile-cellular sub-basket (\$ a month)		14.0	18.7		
Fixed-broadband sub-basket (\$ a month)		30.4	26.9		
Trade	00.0	0.0	0.0		
ICT goods exports (% of total goods exports)	20.3 14.3		8.2 10.5		
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	32.3	39.3	30.3		
Applications					
Online service index (0-1, 1=highest presence)	0.75	0.77	0.67		
Secure Internet servers (per million people)	308.2	1,791.3	928.0		

France

	Count	try data	High- income
	2005	2014	group 2014
Economic and social context	2000		
Population (millions)	63	66	1,399
Urban population (% of total)	77	79	81
GNI per capita, World Bank Atlas method (\$)	36,000	43,070	38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	1.6	0.6	1.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	93		99 95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C	C	
Mobile telephone service	C	-	
Internet service	C A		
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)			
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.3	1.7	2.6
Telecommunications investment (% of revenue)	15.6	20.5	16.8
Sector performance Access Fixed talabhase subscriptions (per 100 people)	54.9	60.0	39.9
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	78.3		123.3
Fixed-broadband subscriptions (per 100 people)	15.4		28.0
Households with a computer (%)	54.3		80.3
Households with Internet access at home (%)	34.4		81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	13.6		
Domestic mobile traffic (minutes/subscription/month)	138.0		188.0
Individuals using the Internet (%)	42.9	83.8	80.6
Quality	00	00	100
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	99 7 503	99 221,660	100
international internet bandwidth (bit/s per internet user)	1,595	221,000	131,021
Affordability Fixed-telephone sub-basket (\$ a month)		27.9	23.7
Mobile-cellular sub-basket (\$ a month)		40.0	18.7
Fixed-broadband sub-basket (\$ a month)		27.9	26.9
Trade			
ICT goods exports (% of total goods exports)	6.3		8.2
ICT goods imports (% of total goods imports)	8.5		10.5
ICT service exports (% of total service exports)	36.3	38.2	30.3
Applications	0.00	4.00	0.67
Online service index (0-1, 1=highest presence)	0.80 76.1	1.00 683.4	0.67
Secure Internet servers (per million people)	10.1	ზგა.4	928.0

French Polynesia

	Count	Country data		Country data		ountry data inc	High- income
-	2005	2014	group 2014				
Economic and social context							
Population (millions)	0.25	0.28	1,399				
Urban population (% of total)	56	56	81				
GNI per capita, World Bank Atlas method (\$)			38,317				
GDP growth, 2000–05 and 2005–14 (avg. annual %)			1.1				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)			99 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	M					
Mobile telephone service	M	M					
Internet service	M	M					
Foreign ownership (not allowed, restricted, allowed)	No	No					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В					
Sector efficiency and capacity Telecommunications revenue (% of GDP)			2.6				
Telecommunications investment (% of revenue)			16.8				
Sector performance Access							
Fixed-telephone subscriptions (per 100 people)	20.9	19.7	39.9				
Mobile-cellular telephone subscriptions (per 100 people)	47.1	85.7	123.3				
Fixed-broadband subscriptions (per 100 people)	4.3	17.4	28.0				
Households with a computer (%)	45.0		80.3				
Households with Internet access at home (%)			81.0				
Usage	9.1	9.4					
Int'l. voice traffic, total (minutes/subscription/month)	116.7	103.8	188.0				
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	21.5	60.7	80.6				
Quality							
Population covered by a mobile-cellular network (%)	96	98	100				
International Internet bandwidth (bit/s per Internet user)	1,639	13,814	131,821				
Affordability			00.7				
Fixed-telephone sub-basket (\$ a month)			23.7				
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)			18.7 26.9				
Trade							
ICT goods exports (% of total goods exports)	0.2	0.5	8.2				
ICT goods imports (% of total goods imports)	5.1	5.4	10.5				
ICT service exports (% of total service exports)	13.5	6.0	30.3				
Applications			0.67				
Online service index (0-1, 1=highest presence)		100.0	0.67				
Secure Internet servers (per million people)	58.9	160.8	928.0				

Gabon

Sub-Saharan Africa	Jpper n	pper middle			per middle incor	
	Count	Country data				
	2005	2014	group 2014			
Economic and social context	2000					
Population (millions)	1	2	2,36			
Urban population (% of total)	83	87	62			
GNI per capita, World Bank Atlas method (\$)	5,580	9,450	7,87			
GDP growth, 2000–05 and 2005–14 (avg. annual %)	1.5	3.3	6.			
Adult literacy rate (% ages 15 and older)	82	82	9.			
Gross primary, secondary, tertiary school enrollment (%)			8			
Sector structure						
Separate telecommunications/ICT regulator	Yes	Yes				
Status of main fixed-line telephone operator	Public	Mixed				
Level of competition (competition, partial comp., monopoly)		1111100				
International gateway(s)	М	М				
Mobile telephone service	C	M				
Internet service	C	M				
	A	No.				
Foreign ownership (not allowed, restricted, allowed)						
Reg. treatment of VoIP (banned, closed, no framework, allowed) в	В				
Sector efficiency and capacity	1.6		2.			
Telecommunications revenue (% of GDP)	12.4		2. 19.			
Telecommunications investment (% of revenue)	12.4		15.			
Sector performance <i>Access</i>						
Fixed-telephone subscriptions (per 100 people)	2.8	1.0	17.			
Mobile-cellular telephone subscriptions (per 100 people)	53.4	210.4	101.			
	0.1	0.6	11.			
Fixed-broadband subscriptions (per 100 people)						
Households with a computer (%)	3.0	12.5	46.			
Households with Internet access at home (%)	2.0	9.7	45.			
Usage		1.0				
Int'l. voice traffic, total (minutes/subscription/month)		1.6	1.			
Domestic mobile traffic (minutes/subscription/month)			293.			
Individuals using the Internet (%)	4.9	9.8	47.			
Quality	70		_			
Population covered by a mobile-cellular network (%)	78		9			
International Internet bandwidth (bit/s per Internet user)	2,963	19,657	21,25			
Affordability		 -	-			
Fixed-telephone sub-basket (\$ a month)		50.5	8.			
Mobile-cellular sub-basket (\$ a month)		19.9	12.			
Fixed-broadband sub-basket (\$ a month)		30.4	17.			
Trade						
ICT goods exports (% of total goods exports)	0.0		18.			
ICT goods imports (% of total goods imports)	3.7		15.			
ICT service exports (% of total service exports)	37.7		27.			
Applications						
Online service index (0-1, 1=highest presence)	0.32	0.09	0.3			
Secure Internet servers (per million people)	5.8	10.7	23.			

Gambia, The

Sub-Saharan Africa Low income

	Count	Country data		Country data in		ountry data inc	Low- income group
-	2005	2014	2014				
Economic and social context							
Population (millions)	1	2	622				
Urban population (% of total)	52	59	30				
GNI per capita, World Bank Atlas method (\$)	410	440	626				
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.2	3.6	6.1				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	37	53 56	57 59				
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)	M	M					
Mobile telephone service	Р	M					
Internet service	С	M					
Foreign ownership (not allowed, restricted, allowed)	Α	Α					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В					
Sector efficiency and capacity Telecommunications revenue (% of GDP)							
Telecommunications investment (% of revenue)							
Sector performance Access							
Fixed-telephone subscriptions (per 100 people)	3.1	2.9	0.9				
Mobile-cellular telephone subscriptions (per 100 people)	17.2	119.6	57.2				
Fixed-broadband subscriptions (per 100 people)	0.0	0.1	0.2				
Households with a computer (%)	2.3	8.3	4.5				
Households with Internet access at home (%)	1.0	8.5	4.2				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)							
Domestic mobile traffic (minutes/subscription/month)	14.7		39.8				
Individuals using the Internet (%)	3.8	15.6	6.3				
Quality Population covered by a mobile-cellular network (%)	70						
International Internet bandwidth (bit/s per Internet user)	165	10,928	4,196				
Affordability							
Fixed-telephone sub-basket (\$ a month)		3.5	8.7				
Mobile-cellular sub-basket (\$ a month)		6.0	11.7				
Fixed-broadband sub-basket (\$ a month)		280.3	44.9				
Trade ICT goods exports (% of total goods exports)	0.3	0.1					
ICT goods imports (% of total goods imports)	5.0	1.8	2.7				
ICT service exports (% of total service exports)			21.5				
Applications							
Online service index (0-1, 1=highest presence)	0.23	0.20	0.11				
Secure Internet servers (per million people)	1.3	5.7	1.2				

Georgia

Europe & Central Asia	Lower n	ower middle i			wer middle incon	
	Counti	Country data				
	2005	2014	group 2014			
Economic and social context						
Population (millions)	4	5	2,879			
Urban population (% of total)	52	53	39			
GNI per capita, World Bank Atlas method (\$)	1,360	3,720	2,012			
GDP growth, 2000–05 and 2005–14 (avg. annual %)	7.5	4.7	5.9			
Adult literacy rate (% ages 15 and older)	100	100	73			
Gross primary, secondary, tertiary school enrollment (%)	77	76	67			
Sector structure						
Separate telecommunications/ICT regulator	Yes	Yes				
Status of main fixed-line telephone operator	Public	Private				
Level of competition (competition, partial comp., monopoly)		0				
International gateway(s)	M	C				
Mobile telephone service Internet service	C	C				
Foreign ownership (not allowed, restricted, allowed)	A	A				
Reg. treatment of VoIP (banned, closed, no framework, allowe		A				
Sector efficiency and capacity Telecommunications revenue (% of GDP)	6.2	2.7	2.3			
Telecommunications revenue (% of abr) Telecommunications investment (% of revenue)	30.9	17.3	19.8			
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 (%)	12.7 26.2 0.1 1.8	25.4 124.9 12.2 45.8	4.0 87.1 2.4 17.0			
Households with Internet access at home (%)	1.0	41.0	18.3			
Usage Int'l. voice traffic, total (minutes/subscription/month)		9.1	8.8			
Domestic mobile traffic (minutes/subscription/month)		131.7	147.6			
Individuals using the Internet (%)	6.1	48.9	22.6			
Quality						
Population covered by a mobile-cellular network (%)	95	99	94			
International Internet bandwidth (bit/s per Internet user)	118	70,966	10,618			
Affordability						
Fixed-telephone sub-basket (\$ a month)		2.4	5.0			
Mobile-cellular sub-basket (\$ a month)		6.1	7.1			
Fixed-broadband sub-basket (\$ a month)		12.0	18.6			
Trade						
ICT goods exports (% of total goods exports)	0.1	0.7	6.2			
ICT goods imports (% of total goods imports)	4.4	5.1	8.0			
ICT service exports (% of total service exports)	4.0	3.9	51.3			
Applications						
Online service index (0-1, 1=highest presence)	0.46	0.60	0.24			
Secure Internet servers (per million people)	4.6	37.1	5.9			

Germany

	Count	Country data		Country data	
	2005	2014	group 2014		
Economic and social context			-		
Population (millions)	82	81	1,399		
Urban population (% of total)	73	75	81		
GNI per capita, World Bank Atlas method (\$)	35,880	47,640	38,317		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	0.4	1.1	1.1		
Adult literacy rate (% ages 15 and older)			99		
Gross primary, secondary, tertiary school enrollment (%)		94	95		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Private	Mixed			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	C	C			
Mobile telephone service	С	С			
Internet service	С	С			
Foreign ownership (not allowed, restricted, allowed)	Α	Α			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	Α			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	2.9	1.5	2.6		
Telecommunications investment (% of revenue)	8.6	15.5	16.8		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	65.4	56.9	39.9		
Mobile-cellular telephone subscriptions (per 100 people)	94.6	120.4	123.3		
Fixed-broadband subscriptions (per 100 people)	12.9	35.8	28.0		
Households with a computer (%)	70.0	90.6	80.3		
Households with Internet access at home (%)	61.6	89.5	81.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)	43.0	88.5	188.0		
Individuals using the Internet (%)	68.7	86.2	80.6		
Quality					
Population covered by a mobile-cellular network (%)	99	99	100		
International Internet bandwidth (bit/s per Internet user)	9,827	145,990	131,821		
Affordability					
Fixed-telephone sub-basket (\$ a month)		27.4	23.7		
Mobile-cellular sub-basket (\$ a month)		18.0	18.7		
Fixed-broadband sub-basket (\$ a month)		39.8	26.9		
Trade					
ICT goods exports (% of total goods exports)	7.9	4.3	8.2		
ICT goods imports (% of total goods imports)	11.5	7.2	10.5		
ICT service exports (% of total service exports)	32.9	39.0	30.3		
Applications					
Online service index (0-1, 1=highest presence)	0.71	0.67	0.67		
Secure Internet servers (per million people)	274.2		928.0		
See and missing control (per mission people)	۷. ٦.۷	1,120.0	520.0		

Ghana

Sub-Saharan Africa	Lower m	ower middle inco		
	Countr	Country data		
	2005	2014	group 2014	
Economic and social context				
Population (millions)	21	27	2,879	
Urban population (% of total)	47	53	39	
GNI per capita, World Bank Atlas method (\$)	470	1,600	2,012	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.1	7.9	5.9	
Adult literacy rate (% ages 15 and older)	58	71	73	
Gross primary, secondary, tertiary school enrollment (%)	54	67	67	
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	P		
Mobile telephone service	M	M		
Internet service	M	M		
Foreign ownership (not allowed, restricted, allowed)	Α	Α		
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) C	А		
Sector efficiency and capacity		0.0	0.0	
Telecommunications revenue (% of GDP)		2.3	2.3	
Telecommunications investment (% of revenue)		98.7	19.8	
Sector performance				
Access	1.5	1.0	4.0	
Fixed-telephone subscriptions (per 100 people)	13.4	114.8	4.0 87.1	
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	0.0	0.3	2.4	
Households with a computer (%)	2.0	39.9	17.0	
Households with Internet access at home (%)	0.2	29.0	18.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	14.6	6.5	8.8	
Domestic mobile traffic (minutes/subscription/month)		67.5	147.6	
Individuals using the Internet (%)	1.8	18.9	22.6	
Quality				
Population covered by a mobile-cellular network (%)	59	87	94	
International Internet bandwidth (bit/s per Internet user)	429	3,602	10,618	
Affordability				
Fixed-telephone sub-basket (\$ a month)		4.1	5.0	
Mobile-cellular sub-basket (\$ a month)		5.1	7.7	
Fixed-broadband sub-basket (\$ a month)		33.4	18.6	
Trade	0.0	0.0		
ICT goods exports (% of total goods exports)	0.0	0.2	6.2	
ICT goods imports (% of total goods imports)	4.8	3.8	8.0	
ICT service exports (% of total service exports)			51.1	
Applications	0.20	0.24	0.04	
Online service index (0-1, 1=highest presence)	0.30	0.31	0.24	
Secure Internet servers (per million people)	0.1	3.7	5.9	

Greece

	Country data		High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	11	11	1,399
Urban population (% of total)	74	78	81
GNI per capita, World Bank Atlas method (\$)	22,510	22,090 -3.4	38,317 1.1
GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older)	96	-3.4 97	99
Gross primary, secondary, tertiary school enrollment (%)	100	109	95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	0	0	
International gateway(s)	C P	C P	
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)	3.9	2.5	2.6
Telecommunications investment (% of revenue)	9.4	17.1	16.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	57.2	46.9	39.9
Mobile-cellular telephone subscriptions (per 100 people)	92.9	115.0	123.3
Fixed-broadband subscriptions (per 100 people)	1.5	28.4	28.0
Households with a computer (%)	33.0	62.7	80.3
Households with Internet access at home (%)	21.7	65.6	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	13.9	13.3	
Domestic mobile traffic (minutes/subscription/month)	49.3	163.5	188.0
Individuals using the Internet (%)	24.0	63.2	80.6
Quality	100	100	100
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	100 2,458	100 99,513	100 131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		24.2	23.7
Mobile-cellular sub-basket (\$ a month)		41.0	18.7
Fixed-broadband sub-basket (\$ a month)		23.3	26.9
Trade			
ICT goods exports (% of total goods exports)	2.8	1.4	8.2
ICT goods imports (% of total goods imports)	5.7	4.0	10.5
ICT service exports (% of total service exports)	6.6	8.0	30.3
Applications	0.55	0.01	0.0=
Online service index (0-1, 1=highest presence)	0.57	0.61	0.67
Secure Internet servers (per million people)	31.5	147.4	928.0

Greenland

	Count	Country data		Country data		Country data	
	2005	2014	group 2014				
Economic and social context							
Population (millions)	0.06	0.06	1,399				
Urban population (% of total)	83	86	81				
GNI per capita, World Bank Atlas method (\$)	29,690		38,317				
GDP growth, 2000-05 and 2005-14 (avg. annual %)	0.7		1.1				
Adult literacy rate (% ages 15 and older)			99				
Gross primary, secondary, tertiary school enrollment (%)			95				
Sector structure							
Separate telecommunications/ICT regulator	No	No					
Status of main fixed-line telephone operator	Public	Public					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)	M	М					
Mobile telephone service	M	М					
Internet service	M	М					
Foreign ownership (not allowed, restricted, allowed)	No	No					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)			2.6				
Telecommunications investment (% of revenue)			16.8				
Sector performance							
Access							
Fixed-telephone subscriptions (per 100 people)	56.5	30.1	39.9				
Mobile-cellular telephone subscriptions (per 100 people)	81.6	106.4	123.3				
Fixed-broadband subscriptions (per 100 people)	12.5	20.0	28.0				
Households with a computer (%)			80.3				
Households with Internet access at home (%)	32.0	76.7	81.0				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)							
Domestic mobile traffic (minutes/subscription/month)		87.9	188.0				
Individuals using the Internet (%)	57.7	66.7	80.6				
Quality							
Population covered by a mobile-cellular network (%)	90	100	100				
International Internet bandwidth (bit/s per Internet user)	913	18,995	131,821				
Affordability							
Fixed-telephone sub-basket (\$ a month)			23.7				
Mobile-cellular sub-basket (\$ a month)			18.7				
Fixed-broadband sub-basket (\$ a month)			26.9				
Trade							
ICT goods exports (% of total goods exports)	0.1	0.0	8.2				
ICT goods imports (% of total goods imports)	5.6	4.5	10.5				
ICT service exports (% of total service exports)			30.3				
Applications							
Online service index (0-1, 1=highest presence)			0.67				
Secure Internet servers (per million people)	212.2	1,385.6	928.0				

Grenada

Latin America & Caribbean	Upper middle inco			
	Count	Country data		
	2005	2014	group 2014	
Economic and social context	2003	2017	2017	
Population (millions)	0.10	0.11	2,361	
Urban population (% of total)	36	36	62	
GNI per capita, World Bank Atlas method (\$)	6,760	7,850	7,873	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.5	-0.3	6.0	
Adult literacy rate (% ages 15 and older)			94	
Gross primary, secondary, tertiary school enrollment (%)			80	
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	M		
Mobile telephone service	M	M		
Internet service	M	M		
Foreign ownership (not allowed, restricted, allowed)	No	A		
Reg. treatment of VoIP (banned, closed, no framework, allowe	d) No	No		
Sector efficiency and capacity	8.4	7 1	2.4	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	19.1	7.1 11.1	19.7	
	13.1	11.1	13.1	
Sector performance Access				
Fixed-telephone subscriptions (per 100 people)	26.6	26.9	17.6	
Mobile-cellular telephone subscriptions (per 100 people)	45.5	126.5	101.4	
Fixed-broadband subscriptions (per 100 people)	3.1	17.0	11.7	
Households with a computer (%)	0.1	39.4	46.0	
Households with Internet access at home (%)		32.6	45.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	100.5	46.6	1.6	
Domestic mobile traffic (minutes/subscription/month)	133.5	200.9	293.4	
Individuals using the Internet (%)	20.5	37.4	47.7	
Quality				
Population covered by a mobile-cellular network (%)			99	
International Internet bandwidth (bit/s per Internet user)	19,463	251,661	21,253	
Affordability			_	
Fixed-telephone sub-basket (\$ a month)		13.4	8.9	
Mobile-cellular sub-basket (\$ a month)		22.0	12.4	
Fixed-broadband sub-basket (\$ a month)		29.4	17.3	
Trade	1.5		18.0	
ICT goods exports (% of total goods exports)	1.5 4.8		15.1	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.8 15.8	13.9	27.4	
Applications				
Online service index (0-1, 1=highest presence)	0.45	0.35	0.37	
Secure Internet servers (per million people)	29.1	37.6	23.3	

Guam

	Countr	Country data		l Country data	
•	2005	2005 2014	group 2014		
Economic and social context					
Population (millions)	0.16	0.17	1,399		
Urban population (% of total)	94	94	81		
GNI per capita, World Bank Atlas method (\$)			38,317		
GDP growth, 2000-05 and 2005-14 (avg. annual %)			1.1		
Adult literacy rate (% ages 15 and older)			99		
Gross primary, secondary, tertiary school enrollment (%)			95		
Sector structure					
Separate telecommunications/ICT regulator	No	No			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	M	M			
Mobile telephone service	М	М			
Internet service	М	М			
Foreign ownership (not allowed, restricted, allowed)	No	No			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)			2.6		
Telecommunications investment (% of revenue)	••	••	16.8		
Sector performance					
Access	41.4	40.2	39.9		
Fixed-telephone subscriptions (per 100 people)	61.9	40.2	123.3		
Mobile-cellular telephone subscriptions (per 100 people)	1.7		28.0		
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)		••	80.3		
Households with Internet access at home (%)			81.0		
nousenous with internet access at nome (%)			01.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)			188.0		
Individuals using the Internet (%)	38.6	69.3	80.6		
Quality					
Population covered by a mobile-cellular network (%)			100		
International Internet bandwidth (bit/s per Internet user)			131,821		
Affordability					
Fixed-telephone sub-basket (\$ a month)			23.7		
Mobile-cellular sub-basket (\$ a month)			18.7		
Fixed-broadband sub-basket (\$ a month)			26.9		
Trade					
ICT goods exports (% of total goods exports)			8.2		
ICT goods imports (% of total goods imports)			10.5		
ICT service exports (% of total service exports)			30.3		
Applications					
Online service index (0-1, 1=highest presence)			0.67		
Secure Internet servers (per million people)	113.6	197.0	928.0		

Guatemala

Latin America & Caribbean Lower middle incom			
	Counti	y data	Lower middle income
	2005	2014	2014
Economic and social context			
Population (millions)	13	16	2,879
Urban population (% of total)	47	51	39
GNI per capita, World Bank Atlas method (\$)	1,990	3,410	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.1	3.4	5.9
Adult literacy rate (% ages 15 and older)	69	77	73
Gross primary, secondary, tertiary school enrollment (%)	71	69	67
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)	M	M	
Mobile telephone service	M	M	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	Α	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	А	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.3
Telecommunications investment (% of revenue)			19.8
Sector performance			
Access	9.8	10.8	4.0
Fixed-telephone subscriptions (per 100 people)	9.6 35.6	10.6	4.0 87.1
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	0.2	2.4	2.4
Households with a computer (%)	8.4	20.9	17.0
Households with Internet access at home (%)	2.1	15.0	18.3
nouseholus with internet access at nome (n)	2.1	15.0	10.3
Usage Int'l. voice traffic, total (minutes/subscription/month)	32.1	10.5	8.8
Domestic mobile traffic (minutes/subscription/month)	51.4	87.0	147.6
Individuals using the Internet (%)	5.7	23.4	22.6
Quality			
Population covered by a mobile-cellular network (%)	76	100	94
International Internet bandwidth (bit/s per Internet user)	977	8,073	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		5.7	5.0
Mobile-cellular sub-basket (\$ a month)		21.6	7.7
Fixed-broadband sub-basket (\$ a month)		27.4	18.6
Trade			
CT goods exports (% of total goods exports)	0.3	0.3	6.2
CT goods imports (% of total goods imports)	6.0	5.7	8.0
	19.3	20.9	51.1

0.24

5.9

0.15

17.5

0.43

5.3

Applications

Online service index (0-1, 1=highest presence)

Secure Internet servers (per million people)

Guinea

Sub-Saharan Africa Low income

	Countr	Country data		Country data i		:ountry data		:ountry data	Low- income group
	2005	2014	2014						
Economic and social context									
Population (millions)	10	12	622						
Urban population (% of total)	33	37	30						
GNI per capita, World Bank Atlas method (\$)	340	470	626						
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.0	2.5	6.1						
Adult literacy rate (% ages 15 and older)	30	25	57						
Gross primary, secondary, tertiary school enrollment (%)	44	52	59						
Sector structure		.,							
Separate telecommunications/ICT regulator	No	Yes							
Status of main fixed-line telephone operator	Mixed	Public							
Level of competition (competition, partial comp., monopoly)									
International gateway(s)	M	М							
Mobile telephone service	M	C							
Internet service	M	C							
Foreign ownership (not allowed, restricted, allowed)	No	No							
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)	0.3	0.0	0.9						
Mobile-cellular telephone subscriptions (per 100 people)	2.0	72.1	57.2						
Fixed-broadband subscriptions (per 100 people)		0.0	0.2						
Households with a computer (%)		2.3	4.5						
Households with Internet access at home (%)	0.0	1.5	4.2						
Usage									
Int'l. voice traffic, total (minutes/subscription/month)									
Domestic mobile traffic (minutes/subscription/month)			39.8						
Individuals using the Internet (%)	0.5	1.7	6.3						
Quality									
Population covered by a mobile-cellular network (%)	80								
International Internet bandwidth (bit/s per Internet user)	39	2,365	4,196						
Affordability									
Fixed-telephone sub-basket (\$ a month)		1.6	8.7						
Mobile-cellular sub-basket (\$ a month)		4.1	11.7						
Fixed-broadband sub-basket (\$ a month)		800.0	44.9						
Trade									
ICT goods exports (% of total goods exports)	0.0								
ICT goods imports (% of total goods imports)	0.7		2.7						
ICT service exports (% of total service exports)	1.1	69.3	21.5						
Applications									
Online service index (0-1, 1=highest presence)	0.14	0.00	0.11						
Secure Internet servers (per million people)		0.3	1.2						

Guinea-Bissau

Sub-Saharan Africa Low income

	Countr	Country data		Country data	
-	2005	2014	group 2014		
Economic and social context					
Population (millions)	1	2	622		
Urban population (% of total)	41	49	30		
GNI per capita, World Bank Atlas method (\$)	390	550	626		
GDP growth, 2000–05 and 2005–14 (avg. annual %)	1.5	3.2	6.1		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	<i>41</i> 59	58 	57 59		
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)	М	M			
Mobile telephone service	М	М			
Internet service	М	М			
Foreign ownership (not allowed, restricted, allowed)	Α	A			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В			
Sector efficiency and capacity Telecommunications revenue (% of GDP)					
Telecommunications investment (% of revenue)					
Sector performance					
Access	0.7	0.0	0.0		
Fixed-telephone subscriptions (per 100 people)	0.7 7.0	0.3 63.5	0.9 57.2		
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)		03.5	0.2		
Households with a computer (%)		2.5	4.5		
Households with Internet access at home (%)	0.7	1.9	4.3		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)			39.8		
Individuals using the Internet (%)	1.9	3.3	6.3		
Quality	05	0.5			
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	65 2	65 2,674	4,196		
Affordability					
Fixed-telephone sub-basket (\$ a month)			8.7		
Mobile-cellular sub-basket (\$ a month)			11.7		
Fixed-broadband sub-basket (\$ a month)			44.9		
Trade					
ICT goods exports (% of total goods exports)					
ICT goods imports (% of total goods imports)	1.8		2.7		
ICT service exports (% of total service exports)	10.5	62.8	21.5		
Applications Online service index (0.1. 1=highest presence)	0.15	0.01	0.11		
Online service index (0-1, 1=highest presence)		1.1	1.2		
Secure Internet servers (per million people)		1.1	1.2		

Guyana

Latin America & Caribbean	bean Lower middle		income		
	Countr	Country data			Lower middle income
	2005	2014	group 2014		
Economic and social context					
Population (millions)	0.74	0.76	2,879		
Urban population (% of total)	28	28	39		
GNI per capita, World Bank Atlas method (\$)	1,060	4,170	2,01		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	0.8	3.9	5.		
Adult literacy rate (% ages 15 and older)			7.		
Gross primary, secondary, tertiary school enrollment (%)	77	68	6		
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	M			
Mobile telephone service	M	M			
Internet service	M	M			
Foreign ownership (not allowed, restricted, allowed)	No ed) B	No			
Reg. treatment of VoIP (banned, closed, no framework, allowe	ea) B	С			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	6.3	4.6	2		
Telecommunications investment (% of revenue)	50.0	10.7	19.		
Sector performance Access	14.5	19.9	4.0		
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	37.0	70.5	87.		
Fixed-broadband subscriptions (per 100 people)	0.3	5.6	2.		
Households with a computer (%)	11.6	26.9	17.		
Households with Internet access at home (%)	10.4	24.2	18.		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	21.7	15.1	8.		
Domestic mobile traffic (minutes/subscription/month)	24.7	30.2	147.		
Individuals using the Internet (%)	13.8	37.4	22.		
Quality					
Population covered by a mobile-cellular network (%)	95	97	9.		
International Internet bandwidth (bit/s per Internet user)	339	9,994	10,61		
Affordability		3.1	5.		
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		10.1	5. 7.		
Fixed-broadband sub-basket (\$ a month)		24.3	18.		
Trade					
ICT goods exports (% of total goods exports)	0.0	0.1	6.		
ICT goods imports (% of total goods imports)	1.9	2.5	8.		
ICT service exports (% of total service exports)	42.4	29.3	51.		
Applications					
Online service index (0-1, 1=highest presence)	0.44	0.24	0.2		
Secure Internet servers (per million people)	1.3	10.5	5.		



Latin America & Caribbean

Low income

	Country data		Low- income group
-	2005	2014	2014
Economic and social context			
Population (millions)	9	11	622
Urban population (% of total)	44	57	30
GNI per capita, World Bank Atlas method (\$)	420	820	626
GDP growth, 2000–05 and 2005–14 (avg. annual %)	-0.7	1.8	6.1
Adult literacy rate (% ages 15 and older)	49		57 59
Gross primary, secondary, tertiary school enrollment (%)		••	59
Sector structure	V	Vaa	
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Mixed	
Level of competition (competition, partial comp., monopoly)	M	м	
International gateway(s)	M P	M M	
Mobile telephone service	C	M	
Internet service	No	No No	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A A	
— Leatinett of voir (bannet, closed, no trainework, allowed)	INU		
Sector efficiency and capacity Telecommunications revenue (% of GDP)		3.7	
Telecommunications revenue (% of dbf) 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 (%)	1.6 5.4 2.0 1.0	0.4 64.7 0.0 8.7 4.0	0.9 57.2 0.2 4.5 4.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			39.8
Individuals using the Internet (%)	6.4	11.4	6.3
Quality			
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	229	109	 4,196
Affordability			
Fixed-telephone sub-basket (\$ a month)		5.2	8.7
Mobile-cellular sub-basket (\$ a month)		9.8	11.7
Fixed-broadband sub-basket (\$ a month)		44.6	44.9
Trade			
ICT goods exports (% of total goods exports)			
ICT goods imports (% of total goods imports)			2.7
ICT service exports (% of total service exports)			21.5
Applications			
Online service index (0-1, 1=highest presence)	0.21	0.11	0.11
Secure Internet servers (per million people)	0.6	1.7	1.2

Honduras

Latin America & Caribbean	Lower n	wer middle		
	0		Lower middle- income	
	2005	y data 2014	group 2014	
Economic and social context	2005	2017	2014	
Population (millions)	7	8	2,879	
Urban population (% of total)	49	54	39	
GNI per capita, World Bank Atlas method (\$)	1,390	2,280	2,012	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.7	2.3	5.9	
Adult literacy rate (% ages 15 and older)	84	87	73	
Gross primary, secondary, tertiary school enrollment (%)		69	67	
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	Р		
Mobile telephone service	M	C		
Internet service	M	C		
Foreign ownership (not allowed, restricted, allowed)	A	A		
Reg. treatment of VoIP (banned, closed, no framework, allower		C		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	5.1	4.6	2.3	
Telecommunications investment (% of revenue)	23.5	9.5	19.8	
Sector performance				
Access	7.0	C 4	4.0	
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	7.2 18.6	6.4 93.5	87.:	
Fixed-broadband subscriptions (per 100 people)	10.0	1.4		
Households with a computer (%)	6.3	21.6		
Households with Internet access at home (%)	1.5	19.6	18.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	25.3	22.8	8.8	
Domestic mobile traffic (minutes/subscription/month)	43.0	199.8	147.	
Individuals using the Internet (%)	6.5	19.1	22.0	
Quality				
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	90 1.115	21,765	9. 10,618	
	1,110	21,700	10,01	
Affordability Fixed-telephone sub-basket (\$ a month)		6.3	5.	
Mobile-cellular sub-basket (\$ a month)		7.2		
Fixed-broadband sub-basket (\$ a month)		15.7		
Trade				
ICT goods exports (% of total goods exports)	1.1	0.3	6	
ICT goods imports (% of total goods imports)	5.6	5.0		
ICT service exports (% of total service exports)	8.1	11.2	51.	
Applications	0.40	0.40	0.0	
Online service index (0-1, 1=highest presence)	0.40	0.40		
Secure Internet servers (per million people)	4.4	11.4	5.	

Hong Kong SAR, China

	Country data		High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	7	7	1,399
Urban population (% of total)	100	100	81
GNI per capita, World Bank Atlas method (\$)	28,890	.,.	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.2	3.3	1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)		91	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	C	
Mobile telephone service	М	С	
Internet service	М	С	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)) A	С	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.6	3.9	2.6
Telecommunications investment (% of revenue)	18.3	10.8	16.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	55.0	61.1	39.9
Mobile-cellular telephone subscriptions (per 100 people)	123.9		123.3
Fixed-broadband subscriptions (per 100 people)	24.1	31.2	28.0
Households with a computer (%)	70.1	83.7	80.3
Households with Internet access at home (%)	64.6	82.4	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		59.2	
Domestic mobile traffic (minutes/subscription/month)		90.0	188.0
Individuals using the Internet (%)	56.9	74.6	80.6
Quality			
Population covered by a mobile-cellular network (%)	100	100	100
International Internet bandwidth (bit/s per Internet user)	16,723	3,345,122	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		14.2	23.7
Mobile-cellular sub-basket (\$ a month)		5.7	18.7
Fixed-broadband sub-basket (\$ a month)		21.7	26.9
Total			
Trade ICT goods exports (% of total goods exports)	38.3	41.5	8.2
ICT goods imports (% of total goods imports)	38.2	38.8	10.5
ICT service exports (% of total service exports)	18.4	14.8	30.3
Applications Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	162.3	790.6	928.0
occure internet servers (per million people)	102.5	150.0	320.0

Hungary

	Count	Country data		Country data		Country data	
	2005	2014	group 2014				
Economic and social context							
Population (millions)	10	10	1,399				
Urban population (% of total)	66	71	81				
GNI per capita, World Bank Atlas method (\$)	10,410	13,470	38,317				
GDP growth, 2000–05 and 2005–14 (avg. annual %)	4.2	-0.1	1.1 99				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	99 89	99 93	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 P	C P					
Mobile telephone service	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)	4.6	2.6	2.6				
Telecommunications investment (% of revenue)	9.1	16.2	16.8				
Sector performance							
Access	22.0	20.2	20.0				
Fixed-telephone subscriptions (per 100 people)	33.8 92.3	30.3 118.1	39.9 123.3				
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	6.5	27.3	28.0				
Households with a computer (%)	42.0	76.8	80.3				
Households with Internet access at home (%)	22.1	75.1	81.0				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)	6.8						
Domestic mobile traffic (minutes/subscription/month)	84.5	131.6	188.0				
Individuals using the Internet (%)	39.0	76.1	80.6				
Quality Description occurred by a makila collular naturals (%)	99	99	100				
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	8,896		131,821				
Affordability							
Fixed-telephone sub-basket (\$ a month)		22.7	23.7				
Mobile-cellular sub-basket (\$ a month)		25.1	18.7				
Fixed-broadband sub-basket (\$ a month)		28.3	26.9				
Trade							
ICT goods exports (% of total goods exports)	25.6	14.8	8.2				
ICT goods imports (% of total goods imports)	18.7	15.1	10.5				
ICT service exports (% of total service exports)	19.5	28.2	30.3				
Applications Online service index (0-1, 1=highest presence)	0.65	0.56	0.67				
Secure Internet servers (per million people)	30.0	300.8	928.0				
	20.0	- 50.0	- 20.0				

Iceland

	Count	Country data		H inc Country data	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	0.30	0.33	1,399		
Urban population (% of total)	93	94	81		
GNI per capita, World Bank Atlas method (\$)	50,730		38,317		
GDP growth, 2000–05 and 2005–14 (avg. annual %) Adult literacy rate (% ages 15 and older)	4.0		1.1 99		
Gross primary, secondary, tertiary school enrollment (%)	95	99	95		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Mixed	Mixed			
Level of competition (competition, partial comp., monopoly)		0			
International gateway(s)	M M	C			
Mobile telephone service Internet service	M	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	1.8	2.6		
Telecommunications investment (% of revenue)	19.5	15.3	16.8		
Sector performance					
Access Fixed-telephone subscriptions (per 100 people)	65.3	51.5	39.9		
Mobile-cellular telephone subscriptions (per 100 people)	95.4	111.1	123.3		
Fixed-broadband subscriptions (per 100 people)	26.3	35.9	28.0		
Households with a computer (%)	89.0	98.1	80.3		
Households with Internet access at home (%)	84.4	96.5	81.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	18.7				
Domestic mobile traffic (minutes/subscription/month)	125.4		188.0		
Individuals using the Internet (%)	87.0	98.2	80.6		
Quality	99	99	100		
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)		519,869			
Affordability					
Fixed-telephone sub-basket (\$ a month)		23.1	23.7		
Mobile-cellular sub-basket (\$ a month)		22.1	18.7		
Fixed-broadband sub-basket (\$ a month)		31.8	26.9		
Trade					
ICT goods exports (% of total goods exports)	0.1	0.1	8.2		
ICT goods imports (% of total goods imports)	6.4		10.5		
ICT service exports (% of total service exports)	227.1	13.4	30.3		
Applications	0.72	0.61	0.67		
Online service index (0-1, 1=highest presence)		3,214.4	928.0		
Secure Internet servers (per million people)	1,004.3	3,214.4	920.0		

India

South Asia L	Lower middle incom			
	Countr	y data	Lower middle- income group	
	2005	2014	2014	
Economic and social context				
Population (millions)	1,144	1,295	2,879	
Urban population (% of total)	29	32	39	
GNI per capita, World Bank Atlas method (\$)	730	1,570	2,012	
GDP growth, 2000–05 and 2005–14 (avg. annual %)	6.7	7.4	5.9	
Adult literacy rate (% ages 15 and older)	63	69 71	73	
Gross primary, secondary, tertiary school enrollment (%)	63	/1	67	
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	М		
International gateway(s) Mobile telephone service	C	M		
Internet service	C	M		
Foreign ownership (not allowed, restricted, allowed)	R	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.4	1.8	2.3	
Telecommunications investment (% of revenue)	42.8	16.2	19.8	
Sector performance Access				
Fixed-telephone subscriptions (per 100 people)	4.5	2.1	4.0	
Mobile-cellular telephone subscriptions (per 100 people)	8.0	74.5	87.1	
Fixed-broadband subscriptions (per 100 people)	0.1	1.2	2.4	
Households with a computer (%)	2.0	13.0	17.0	
Households with Internet access at home (%)	1.6	15.3	18.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	5.6	7.5	8.8	
Domestic mobile traffic (minutes/subscription/month)		167.5	147.6	
Individuals using the Internet (%)	2.4	18.0	22.6	
Quality				
Population covered by a mobile-cellular network (%)	31	93	94	
International Internet bandwidth (bit/s per Internet user)	743	5,677	10,618	
Affordability				
Fixed-telephone sub-basket (\$ a month)		2.5	5.0	
Mobile-cellular sub-basket (\$ a month)		2.9	7.7	
Fixed-broadband sub-basket (\$ a month)		4.8	18.6	
Trade				
ICT goods exports (% of total goods exports)	1.1	1.6	6.2	
ICT goods imports (% of total goods imports)	7.6	5.8	8.0	
ICT service exports (% of total service exports)	67.2	65.9	51.1	
Applications				
Online service index (0-1, 1=highest presence)	0.38	0.54	0.24	
Secure Internet servers (per million people)	0.6	5.5	5.9	

Indonesia

Economic and social context Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000–05 and 2005–14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 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)	2005 226 46 1,220 4.7 92	2014 254 53 3,630	Lower middle- income group 2014
Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Irixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	2005 226 46 1,220 4.7	2014 254 53	income group 2014
Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 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)	2005 226 46 1,220 4.7	2014 254 53	2014
Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 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)	226 46 1,220 4.7	254 53	
Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000–05 and 2005–14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 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)	46 1,220 4.7	53	
Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 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)	1,220 4.7		2,879
GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 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)	4.7	3 630	39
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 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)		5,050	2,012
Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	92	5.8	5.9
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 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)	-	93	73
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	67	79	67
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)			
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	Yes	Yes	
International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	Mixed	Mixed	
Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)			
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	M	M	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	M	M	
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	M	M	
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)	No d) A	No A	
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)	u) A		
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)	2.2	1.9	2.3
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	28.3	23.5	19.8
Households with a computer (%) Households with Internet access at home (%)	6.0 20.9 0.0 3.7 1.0	11.7 126.2 1.2 17.8 29.1	4.0 87.1 2.4 17.0 18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			8.8
Domestic mobile traffic (minutes/subscription/month)			147.6
Individuals using the Internet (%)	3.6	17.1	22.6
Quality	20	400	0.4
Population covered by a mobile-cellular network (%)	90	100	94
International Internet bandwidth (bit/s per Internet user)	186	6,225	10,618
Affordability		4.0	5.0
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		6.9	7.7
Fixed-broadband sub-basket (\$ a month)		20.5	18.6
Trade			
ICT goods exports (% of total goods exports)	8.1	3.6	6.2
ICT goods imports (% of total goods imports)	3.6	7.1	8.0
ICT service exports (% of total service exports)	30.9	30.5	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.41	0.36	0.24

5.9

0.5

6.2

Secure Internet servers (per million people)

Iran, Islamic Rep.

Middle East & North Africa	orth Africa Upper middle		income		
	Countr	Country data		U m Country data	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	70	78	2,361		
Urban population (% of total)	68	73	62		
GNI per capita, World Bank Atlas method (\$)	2,530	6,840	7,873		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.9	2.0	6.0		
Adult literacy rate (% ages 15 and older)	82	84	94		
Gross primary, secondary, tertiary school enrollment (%)	64	87	80		
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)	M	М			
Mobile telephone service	P	P			
Internet service Foreign ownership (not allowed, restricted, allowed)	P R	C R			
Reg. treatment of VoIP (banned, closed, no framework, allowed		A			
	, ,	^			
Sector efficiency and capacity	1.4	1.0	2		
Telecommunications revenue (% of GDP)	1.4 74.5	1.8	2.4 19.1		
Telecommunications investment (% of revenue)	74.5	95.4	19.1		
Sector performance					
Access	20.0	00.0	47.		
Fixed-telephone subscriptions (per 100 people)	29.0	39.0 87.8	17.6		
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	12.1 0.1	9.5	101.4 11.7		
Households with a computer (%)	19.0	52.5	46.0		
Households with Internet access at home (%)	6.6	44.7	45.3		
Haara					
Usage Int'l. voice traffic, total (minutes/subscription/month)	2.9	2.1	1.6		
Domestic mobile traffic (minutes/subscription/month)	2.3	109.4	293.4		
Individuals using the Internet (%)	8.1	39.4	47.		
Quality Population covered by a mobile-cellular network (%)	75	94	99		
International Internet bandwidth (bit/s per Internet user)	600	6,056			
Affordability					
Arrordability Fixed-telephone sub-basket (\$ a month)		0.1	8.9		
Mobile-cellular sub-basket (\$ a month)		2.2	12.4		
Fixed-broadband sub-basket (\$ a month)		6.0	17.3		
Trade					
Trade ICT goods exports (% of total goods exports)	0.0	0.0	18.0		
ICT goods exports (% of total goods exports)	4.6	4.6	15.1		
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.0	4.0	27.4		
Annette edden					
Applications Online service index (0-1, 1=highest presence)	0.41	0.37	0.3		
Secure Internet servers (per million people)	0.3	2.1	23.3		



			Upper middle- income
		Country data	
	2005	2014	2014
Economic and social context	27	25	0.001
Population (millions) Urban population (% of total)	69	35 69	2,361 62
GNI per capita, World Bank Atlas method (\$)	2.020	6,320	7,873
GDP growth, 2000–05 and 2005–14 (avg. annual %)	-1.1	6.7	6.0
Adult literacy rate (% ages 15 and older)	74	79	94
Gross primary, secondary, tertiary school enrollment (%)	63		80
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M	M	
Mobile telephone service	M	M	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed) B	А	
Sector efficiency and capacity			2.4
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			2.4 19.7
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 (%)	4.1 5.6 0.0 5.0	5.6 94.9 0.0 25.9 17.0	17.6 101.4 11.7 46.0 45.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			1.6
Domestic mobile traffic (minutes/subscription/month)			293.4
Individuals using the Internet (%)	0.9	11.3	47.7
Quality Population covered by a mobile-cellular network (%)	68		99
International Internet bandwidth (bit/s per Internet user)	130	43	21,253
Affordability			
Fixed-telephone sub-basket (\$ a month)		0.4	8.9
Mobile-cellular sub-basket (\$ a month)		12.5	12.4
Fixed-broadband sub-basket (\$ a month)		211.3	17.3
Trade			10.0
ICT goods exports (% of total goods exports)			18.0
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	5.0	12.0	15.1 27.4
Annlications			
Applications Online service index (0-1, 1=highest presence)	0.27	0.20	0.37

Ireland

Population (millions)		Count	Country data	
Population (millions)		2005	2014	group 2014
Urban population (% of total) 60 63 81 GNI per capita, World Bank Atlas method (\$) 44,070 44,660 38,317 GDP growth, 2000–05 and 2005–14 (avg. annual %) 4.7 0.1 1.1 Adult literacy rate (% ages 15 and older) 99 Gross primary, secondary, tertiary school enrollment (%) 96 105 95 Sector structure Separate telecommunications/ICT regulator Yes Yes Yes Status of main fixed-line telephone operator Private Private Private Level of competition (competition, partial comp., monopoly) International gateway(s) C C C Mobile telephone service C C M Froeign ownership (not allowed, restricted, allowed) A A R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A A R Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.3 1.8 2.6 Telecommunications revenue (% of GDP) 2.3 1.8 2.6	Economic and social context			
GNI per capita, World Bank Atlas method (\$)	· · · · · · · · · · · · · · · · · · ·			,
GDP growth, 2000-05 and 2005-14 (avg. annual %)				
Adult literacy rate (% ages 15 and older) 99		,	,	
Sector structure Separate telecommunications/ICT regulator Yes Yes Separate telecommunications/ICT regulator Private Priva				
Separate telecommunications/ICT regulator Private				
Status of main fixed-line telephone operator Private Level of competition (competition, partial comp., monopoly) International gateway(s) C C Mobile telephone service C C C Internet service C C Mobile telephone service C M Foreign ownership (not allowed, restricted, allowed) A A R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A A R Reg. treatment of VoIP (banned, closed, no framework, allowed) A A A A Recg. treatment of VoIP (banned, closed, no framework, allowed) A A A A A A A A A				
Level of competition (competition, partial comp., monopoly) International gateway(s)	· · ·			
International gateway(s)	·	Private	Private	
Mobile telephone service C		C	C	
Internet service	· · · · · · · · · · · · · · · · · · ·			
Foreign ownership (not allowed, restricted, allowed)	•			
Reg. treatment of VoIP (banned, closed, no framework, allowed)				
Telecommunications revenue (% of GDP) 2.3 1.8 2.6 Telecommunications investment (% of revenue) 10.1 16.3 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 49.4 43.2 39.9 Mobile-cellular telephone subscriptions (per 100 people) 7.8 26.9 28.0 Households with a computer (%) 55.0 84.0 80.3 Households with Internet access at home (%) 47.2 82.2 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month)) A	Α	
Telecommunications investment (% of revenue) 10.1 16.3 16.8		0.0	4.0	
Sector performance Access	·			
Access Fixed-telephone subscriptions (per 100 people) 49.4 43.2 39.9 Mobile-cellular telephone subscriptions (per 100 people) 7.8 26.9 28.0 Fixed-broadband subscriptions (per 100 people) 7.8 26.9 28.0 Households with a computer (%) 55.0 84.0 80.3 Households with Internet access at home (%) 47.2 82.2 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month)	refection intuitications investment (% of revenue)	10.1	10.3	10.0
Fixed-telephone subscriptions (per 100 people) 49.4 43.2 39.9 Mobile-cellular telephone subscriptions (per 100 people) 102.7 104.3 123.3 Fixed-broadband subscriptions (per 100 people) 7.8 26.9 28.0 Households with a computer (%) 55.0 84.0 80.3 Households with Internet access at home (%) 47.2 82.2 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month)	-			
Fixed-broadband subscriptions (per 100 people) 7.8 26.9 28.0 Households with a computer (%) 55.0 84.0 80.3 Households with Internet access at home (%) 47.2 82.2 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 115.4 169.7 188.0 Individuals using the Internet (%) 41.6 79.7 80.6 Quality Population covered by a mobile-cellular network (%) 99 99 100 International Internet bandwidth (bit/s per Internet user) 14,211 160,971 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 40.4 23.7 Mobile-cellular sub-basket (\$ a month) 43.9 18.7 Fixed-broadband sub-basket (\$ a month) 19.9 26.9 Trade ICT goods exports (% of total goods exports) 22.4 5.8 8.2 ICT goods imports (% of total goods imports) <t< td=""><td></td><td>49.4</td><td>43.2</td><td>39.9</td></t<>		49.4	43.2	39.9
Households with a computer (%) 55.0 84.0 80.3 Households with Internet access at home (%) 47.2 82.2 81.0	Mobile-cellular telephone subscriptions (per 100 people)	102.7	104.3	123.3
Households with Internet access at home (%)	Fixed-broadband subscriptions (per 100 people)	7.8	26.9	28.0
Usage Int'l. voice traffic, total (minutes/subscription/month)				
Int'l. voice traffic, total (minutes/subscription/month)	Households with Internet access at home (%)	47.2	82.2	81.0
Domestic mobile traffic (minutes/subscription/month)				
Affordability Value Augustian Augustian <t< td=""><td></td><td></td><td></td><td>188 O</td></t<>				188 O
Quality Population covered by a mobile-cellular network (%) 99 99 100 International Internet bandwidth (bit/s per Internet user) 14,211 160,971 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 40.4 23.7 Mobile-cellular sub-basket (\$ a month) 43.9 18.7 Fixed-broadband sub-basket (\$ a month) 19.9 26.9 Trade ICT goods exports (% of total goods exports) 22.4 5.8 8.2 ICT goods imports (% of total goods imports) 23.8 9.0 10.5 ICT service exports (% of total service exports) 57.1 68.4 30.3 Applications Online service index (0-1, 1=highest presence) 0.73 0.68 0.67				
Population covered by a mobile-cellular network (%) 99 99 100 International Internet bandwidth (bit/s per Internet user) 14,211 160,971 131,821 Affordability		11.0	10.1	00.0
Name		99	99	100
Fixed-telephone sub-basket (\$ a month) 40.4 23.7 Mobile-cellular sub-basket (\$ a month) 43.9 18.7 Fixed-broadband sub-basket (\$ a month) 19.9 26.9 Trade ICT goods exports (% of total goods exports) 22.4 5.8 8.2 ICT goods imports (% of total goods imports) 23.8 9.0 10.5 ICT service exports (% of total service exports) 57.1 68.4 30.3 Applications Online service index (0-1, 1=highest presence) 0.73 0.68 0.67	•	14,211	160,971	131,821
Mobile-cellular sub-basket (\$ a month) 43.9 18.7 Fixed-broadband sub-basket (\$ a month) 19.9 26.9 Trade ICT goods exports (% of total goods exports) 22.4 5.8 8.2 ICT goods imports (% of total goods imports) 23.8 9.0 10.5 ICT service exports (% of total service exports) 57.1 68.4 30.3 Applications Online service index (0-1, 1=highest presence) 0.73 0.68 0.67	Affordability			
Trade 22.4 5.8 8.2 ICT goods exports (% of total goods exports) 22.4 5.8 8.2 ICT goods imports (% of total goods imports) 23.8 9.0 10.5 ICT service exports (% of total service exports) 57.1 68.4 30.3 Applications Online service index (0-1, 1=highest presence) 0.73 0.68 0.67				
Trade 22.4 5.8 8.2 ICT goods exports (% of total goods exports) 23.8 9.0 10.5 ICT service exports (% of total service exports) 57.1 68.4 30.3 Applications Online service index (0-1, 1=highest presence) 0.73 0.68 0.67				
ICT goods exports (% of total goods exports) 22.4 5.8 8.2 ICT goods imports (% of total goods imports) 23.8 9.0 10.5 ICT service exports (% of total service exports) 57.1 68.4 30.3 Applications Online service index (0-1, 1=highest presence) 0.73 0.68 0.67	Fixed-broadband sub-basket (\$ a month)		19.9	26.9
ICT goods imports (% of total goods imports) 23.8 9.0 10.5 ICT service exports (% of total service exports) 57.1 68.4 30.3 Applications Online service index (0-1, 1=highest presence) 0.73 0.68 0.67		22.4	50	Qn
ICT service exports (% of total service exports) 57.1 68.4 30.3 **Applications** Online service index (0-1, 1=highest presence) 0.73 0.68 0.67				
Online service index (0-1, 1=highest presence) 0.73 0.68 0.67				
Online service index (0-1, 1=highest presence) 0.73 0.68 0.67	Applications			
Secure Internet servers (per million people) 353.9 775.0 928.0		0.73	0.68	0.67
	Secure Internet servers (per million people)	353.9	775.0	928.0

Isle of Man

	01	Country data		Country data ii	
	2005	2014	group 2014		
Economic and social context	2005	2017	2014		
Population (millions)	0.08	0.09	1,399		
Urban population (% of total)	52	52	81		
GNI per capita, World Bank Atlas method (\$)	38,690		38,317		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.8		1.1		
Adult literacy rate (% ages 15 and older)			99		
Gross primary, secondary, tertiary school enrollment (%)			95		
Sector structure					
Separate telecommunications/ICT regulator	No	No			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	M	M			
Mobile telephone service	M	M			
Internet service	M	M			
Foreign ownership (not allowed, restricted, allowed)	No	No			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В			
Sector efficiency and capacity			0.0		
Telecommunications revenue (% of GDP)			2.6		
Telecommunications investment (% of revenue)			16.8		
Sector performance					
Access			20.0		
Fixed-telephone subscriptions (per 100 people)			39.9 123.3		
Mobile-cellular telephone subscriptions (per 100 people)			28.0		
Fixed-broadband subscriptions (per 100 people)					
Households with a computer (%)		••	80.3		
Households with Internet access at home (%)			81.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)			100.0		
Domestic mobile traffic (minutes/subscription/month)			188.0		
Individuals using the Internet (%)			80.6		
Quality			100		
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)			131,821		
international internet bandwidth (bit/s per internet user)		••	131,021		
Affordability			23.7		
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)			23.7 18.7		
Fixed-broadband sub-basket (\$ a month)			26.9		
Trade					
ICT goods exports (% of total goods exports)			8.2		
ICT goods imports (% of total goods imports)			10.5		
ICT service exports (% of total service exports)			30.3		
Applications					
			0.67		
Online service index (0-1, 1=highest presence)			0.07		

Israel

	Count	ry data	High- income
	2005	2014	group 2014
Economic and social context Population (millions)	7	8	1,399
Urban population (% of total)	92	92	1,399
GNI per capita, World Bank Atlas method (\$)	21,230	34,990	38.317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	2.0	4.0	1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)	92	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)	M	М	
Mobile telephone service	M	М	
Internet service	М	М	
Foreign ownership (not allowed, restricted, allowed)	R	R A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	Α	A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.9	2.2	2.6
Telecommunications investment (% of revenue)		12.1	16.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	44.5 117.5	37.1 121.5	39.9 123.3
Fixed-broadband subscriptions (per 100 people)	18.6	26.2	28.0
Households with a computer (%)	60.0	82.4	80.3
Households with Internet access at home (%)	42.0	71.5	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			188.0
Individuals using the Internet (%)	25.2	71.5	80.6
Quality	99	100	100
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	10,218		131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		18.2	23.7
Mobile-cellular sub-basket (\$ a month)		35.3	18.7
Fixed-broadband sub-basket (\$ a month)		35.9	26.9
Trade			
ICT goods exports (% of total goods exports)	7.5	11.8	8.2
ICT goods imports (% of total goods imports)	9.7	8.8	10.5
ICT service exports (% of total service exports)	55.4	62.7	30.3
Applications Online service index (0-1, 1=highest presence)	0.74	0.87	0.67
Secure Internet servers (per million people)	162.8	254.3	928.0
	102.0	_5 1.5	520.0



	Country data		High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	58	61	1,399
Urban population (% of total)	68	69	81
GNI per capita, World Bank Atlas method (\$)	32,390	34,280	38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	0.8	-0.9	1.1 99
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	98 90	99 89	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)	М	C	
Mobile telephone service	M	C	
Internet service	M	C A	
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)	2.3	1.6	2.6
Telecommunications investment (% of revenue)	23.2	22.9	16.8
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 (%)	42.7 121.9 11.6 46.0 38.6	33.7 154.2 23.0 74.0 72.6	39.9 123.3 28.0 80.3 81.0
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 87.7 35.0	 125.6 62.0	 188.0 80.6
Quality			
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	100 5,834	100 92,497	100 131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		31.3	23.7
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		35.2 26.9	18.7 26.9
Trade	3.1	1.7	8.2
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	7.1	4.6	10.5
ICT service exports (% of total service exports)	34.2	32.4	30.3
Applications Online service index (0-1, 1=highest presence)	0.67	0.75	0.67
Secure Internet servers (per million people)	44.7	249.2	928.0

Jamaica

Latin America & Caribbean	opper n	pper illiudie i			per middle ir				
	Counti	Country data				Country data		m ir	Upper middle income
	2005	2005 2014	group 2014						
Economic and social context									
Population (millions)	3	3	2,363						
Urban population (% of total)	53	55	62						
GNI per capita, World Bank Atlas method (\$)		5,220	7,873						
GDP growth, 2000–05 and 2005–14 (avg. annual %)		-0.6	6.0						
Adult literacy rate (% ages 15 and older)		88	94						
Gross primary, secondary, tertiary school enrollment (%)	80		80						
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 A	A							
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowe		A							
Sector efficiency and capacity Telecommunications revenue (% of GDP)	6.6	3.1	2						
Telecommunications investment (% of revenue)	19.0	26.1	19.						
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	11.9 73.9	9.1 102.9	17. 101.						
Fixed-broadband subscriptions (per 100 people)	1.7	5.4	11.						
Households with a computer (%)	12.7	32.5	46.						
Households with Internet access at home (%)	5.1	25.7	45.						
Usage									
Int'l. voice traffic, total (minutes/subscription/month)	41.3	81.6	1.						
Domestic mobile traffic (minutes/subscription/month)	33.5	191.9	293.						
Individuals using the Internet (%)	12.8	40.5	47.						
Quality	95		9						
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	5,826	14,210	21,25						
Affordability									
Fixed-telephone sub-basket (\$ a month)		11.9	8.						
Mobile-cellular sub-basket (\$ a month)		9.1	12.						
Fixed-broadband sub-basket (\$ a month)		25.6	17.						
Trade									
ICT goods exports (% of total goods exports)	0.3	0.3	18.						
ICT goods imports (% of total goods imports)	5.0	2.6	15.						
ICT service exports (% of total service exports)	8.3	7.6	27.						
Applications									
Online service index (0-1, 1=highest presence)	0.47	0.31	0.3						
Secure Internet servers (per million people)	14.4	57.0	23.						



	Count	Country data		Country data	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	128	127	1,399		
Urban population (% of total)	86	93	81		
GNI per capita, World Bank Atlas method (\$)	39,140	42,000	38,317		
GDP growth, 2000–05 and 2005–14 (avg. annual %)	1.3	0.3	1.1		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	 86	89	99 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	•			
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)	2.9	2.7	2.6		
Telecommunications investment (% of revenue)	14.3	11.1	16.8		
Sector performance Access					
Fixed-telephone subscriptions (per 100 people)	45.7	50.1	39.9		
Mobile-cellular telephone subscriptions (per 100 people)	76.0	120.2	123.3		
Fixed-broadband subscriptions (per 100 people)	18.4	29.3	28.0		
Households with a computer (%)	80.5	83.3	80.3		
Households with Internet access at home (%)	57.0	97.5	81.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	23.6	1.5			
Domestic mobile traffic (minutes/subscription/month)	97.6	82.0	188.0		
Individuals using the Internet (%)	66.9	90.6	80.6		
Quality	99	100	100		
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	2,589	48,637	131,821		
Affordability					
Fixed-telephone sub-basket (\$ a month)		23.7	23.7		
Mobile-cellular sub-basket (\$ a month)		35.5	18.7		
Fixed-broadband sub-basket (\$ a month)		21.7	26.9		
Trade					
ICT goods exports (% of total goods exports)	16.9	8.6	8.2		
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	13.5 19.8	10.9 24.9	10.5 30.3		
Applications					
Applications Online service index (0-1, 1=highest presence)	0.77	0.94	0.67		
Secure Internet servers (per million people)	257.7	911.7	928.0		

Jordan

Middle East & North Africa	Upper m	pper middle inc	
	Countr	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	5	7	2,361
Urban population (% of total)	81	83	62
GNI per capita, World Bank Atlas method (\$)	2,490	5,160	7,873
GDP growth, 2000–05 and 2005–14 (avg. annual %)	6.3	4.4	6.0
Adult literacy rate (% ages 15 and older)	91 83	98 80	94 80
Gross primary, secondary, tertiary school enrollment (%)	83	80	80
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Private	
Level of competition (competition, partial comp., monopoly)	0		
International gateway(s)	C P	M M	
Mobile telephone service Internet service	C	M	
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)	8.5	4.7	2.4
Telecommunications investment (% of revenue)	20.5	12.3	19.7
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	12.0	5.0	17.6
Mobile-cellular telephone subscriptions (per 100 people)	59.9	147.8 4.7	101.4 11.7
Fixed-broadband subscriptions (per 100 people)	0.4 23.0	4.7 51.1	46.0
Households with a computer (%) Households with Internet access at home (%)	8.0	60.0	45.3
Usage	15 /	13.7	1.6
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	15.4 111.8	268.1	1.6 293.4
Individuals using the Internet (%)	12.9	44.0	47.7
multidudis using the internet (N)	12.5	44.0	71.1
Quality	00	00	0.0
Population covered by a mobile-cellular network (%)	99 457	99 7,874	99
International Internet bandwidth (bit/s per Internet user)	457	1,814	21,253
Affordability			
Fixed-telephone sub-basket (\$ a month)		9.4	8.9
Mobile-cellular sub-basket (\$ a month)		7.8	12.4
Fixed-broadband sub-basket (\$ a month)		18.9	17.3
Trade			
ICT goods exports (% of total goods exports)	3.2	1.4	18.0
ICT goods imports (% of total goods imports)	6.9	3.5	15.1
ICT service exports (% of total service exports)			27.4
Applications			
Online service index (0-1, 1=highest presence)	0.55	0.52	0.37
Secure Internet servers (per million people)	3.7	30.4	23.3

Kazakhstan

Europe & Central Asia	Jpper n	per middle i			per middle inco	
	Count	ry data	Upper middle- income group			
	2005	2014	-			
Economic and social context						
Population (millions)	15	17	2,361			
Urban population (% of total)	55	53	62			
GNI per capita, World Bank Atlas method (\$)	2,950	11,670	7,873			
GDP growth, 2000-05 and 2005-14 (avg. annual %)	10.1	5.7	6.0			
Adult literacy rate (% ages 15 and older)			94			
Gross primary, secondary, tertiary school enrollment (%)	92	92	80			
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)	M	М				
Mobile telephone service	M	M				
Internet service	M No	M R				
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed		A A				
- Control of the Cont	110					
Sector efficiency and capacity	2.8	1.8	2.4			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	5.3	15.4	19.7			
	5.5	13.4	13.1			
Sector performance						
Access	18.0	26.1	17.6			
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	35.8	168.6	101.4			
Fixed-broadband subscriptions (per 100 people)	0.0	12.9	11.7			
Households with a computer (%)	15.6	64.7	46.0			
Households with Internet access at home (%)	5.0	58.8	45.3			
Heada						
Usage Int'l. voice traffic, total (minutes/subscription/month)	7.2	3.7	1.6			
Domestic mobile traffic (minutes/subscription/month)	41.1	115.4	293.4			
Individuals using the Internet (%)	3.0	54.9	47.7			
, , ,						
Quality	0.4	0.5	00			
Population covered by a mobile-cellular network (%)	81	95	99			
International Internet bandwidth (bit/s per Internet user)	108	51,489	21,253			
Affordability						
Fixed-telephone sub-basket (\$ a month)		4.8	8.9			
Mobile-cellular sub-basket (\$ a month)		10.9	12.4			
Fixed-broadband sub-basket (\$ a month)		12.7	17.3			
Trade						
ICT goods exports (% of total goods exports)	0.1	0.3	18.0			
ICT goods imports (% of total goods imports)	4.0	5.8	15.1			
ICT service exports (% of total service exports)	12.0	11.8	27.4			
Applications						
Online service index (0-1, 1=highest presence)	0.47	0.75	0.37			
Secure Internet servers (per million people)	0.9	14.5	23.3			
oceare urremer servers (her minion heabie)	0.9	14.5	۷٥.			

Kenya

Sub-Saharan Africa L	ower n	wer middle inc	
	Country data		Lower middle- income group
•	2005	2014	2014
Economic and social context			
Population (millions)	35	45	2,879
Urban population (% of total)	22	25	39
GNI per capita, World Bank Atlas method (\$)	530	1,290	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.4	5.1	5.9
Adult literacy rate (% ages 15 and older)	72		73
Gross primary, secondary, tertiary school enrollment (%)	59		67
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	M	
Mobile telephone service	М	M	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	А	
Sector efficiency and capacity	4.7	2.4	0.0
Telecommunications revenue (% of GDP)	4.7	3.4	
Telecommunications investment (% of revenue)	76.3	20.9	19.8
Sector performance			
Access	0.8	0.4	4.0
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	12.9	73.8	87.1
Fixed-broadband subscriptions (per 100 people)	0.0	0.2	2.4
Households with a computer (%)	2.6	12.3	17.0
Households with Internet access at home (%)	1.2	16.9	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	3.8	3.1	8.8
Domestic mobile traffic (minutes/subscription/month)	12.7	78.0	147.6
Individuals using the Internet (%)	3.1	43.4	22.6
Quality			
Population covered by a mobile-cellular network (%)	62	89	94
International Internet bandwidth (bit/s per Internet user)	102	25,200	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		13.0	5.0
Mobile-cellular sub-basket (\$ a month)		3.8	7.7
Fixed-broadband sub-basket (\$ a month)		34.7	18.6
Trade	0.0	1.4	
ICT goods exports (% of total goods exports)	0.2	1.4	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.1	7.2 	8.0 51.1
Annellandan			
Applications Online service index (0-1, 1=highest presence)	0.35	0.43	0.24
Secure Internet servers (per million people)	0.3	7.8	5.9

Kiribati

East Asia & Pacific	Lower n	wer middle i		
	Count	Country data		
		2014	group 2014	
Francis and control control	2005	2014	2014	
Economic and social context Population (millions)	0.09	0.11	2.879	
Urban population (% of total)	44	44	39	
GNI per capita, World Bank Atlas method (\$)	1.760	2.150	2.012	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.0	1.8	5.9	
Adult literacy rate (% ages 15 and older)			73	
Gross primary, secondary, tertiary school enrollment (%)	77		67	
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)	M	M M		
Mobile telephone service Internet service	M M	M M		
Foreign ownership (not allowed, restricted, allowed)	No.	No.		
Reg. treatment of VoIP (banned, closed, no framework, allowed		A		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)			2.3	
Telecommunications investment (% of revenue)			19.8	
Sector performance				
Access				
Fixed-telephone subscriptions (per 100 people)	4.6	8.9	4.0	
Mobile-cellular telephone subscriptions (per 100 people)	0.7	17.4	87.1	
Fixed-broadband subscriptions (per 100 people)	0.4	1.1	2.4	
Households with a computer (%) Households with Internet access at home (%)	6.0 2.5		17.0 18.3	
Usage Int'l. voice traffic, total (minutes/subscription/month)			8.8	
Domestic mobile traffic (minutes/subscription/month)			147.6	
Individuals using the Internet (%)	4.0	12.3	22.6	
Quality				
Population covered by a mobile-cellular network (%)			94	
International Internet bandwidth (bit/s per Internet user)		11,781	10,618	
Affordability				
Fixed-telephone sub-basket (\$ a month)		12.1	5.0	
Mobile-cellular sub-basket (\$ a month)		18.1	7.7	
Fixed-broadband sub-basket (\$ a month)		241.3	18.6	
Trade		_	_	
ICT goods exports (% of total goods exports)	0.9	0.0	6.2	
ICT goods imports (% of total goods imports)	1.3	5.0	8.0	
ICT service exports (% of total service exports)			51.1	
Applications	0.00	0.01	0.04	
Online service index (0-1, 1=highest presence)	0.00	0.21	0.24	
Secure Internet servers (per million people)		9.1	5.9	

Korea, Dem. People's Rep.

East Asia & Pacific Low income

	Countr	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	24	25	622
Urban population (% of total)	60	61	30
GNI per capita, World Bank Atlas method (\$)			626
GDP growth, 2000-05 and 2005-14 (avg. annual %)			6.1
Adult literacy rate (% ages 15 and older)			57
Gross primary, secondary, tertiary school enrollment (%)			59
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	M	
Mobile telephone service Internet service	M M	M M	
	No	No.	
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			
Fixed-telephone subscriptions (per 100 people)	4.2	4.7	0.9
Mobile-cellular telephone subscriptions (per 100 people)	0.0	11.2	57.2
Fixed-broadband subscriptions (per 100 people)			0.2
Households with a computer (%)			4.5
Households with Internet access at home (%)			4.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			20.0
Domestic mobile traffic (minutes/subscription/month)			39.8
Individuals using the Internet (%)	0.0	0.0	6.3
Quality	0		
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)			4,196
international internet bandwidth (bit/s per internet user)	••		4,190
Affordability Fixed telephone cub hacket (\$ a month)			8.7
Fixed-telephone sub-basket (\$ a month)			8.7 11.7
Mobile-cellular sub-basket (\$ a month)			
Fixed-broadband sub-basket (\$ a month)			44.9
Trade			
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)			2.7
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)			21.5
ioi service expuits (% oi total service expuits)			21.3
Applications Online carries index (0.1. 1=highest presence)	0.00	0.01	0.11
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)		0.01	1.2
oceare internet servers (her million heahie)		0.1	1.2

Korea, Rep.

	Count	Country data		Country data		Country data	
	2005	2014	group 2014				
Economic and social context							
Population (millions)	48	50	1,399				
Urban population (% of total)	81	82	81				
GNI per capita, World Bank Atlas method (\$)	17,800	27,090	38,317				
GDP growth, 2000–05 and 2005–14 (avg. annual %)	4.8	3.5	1.1				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	98	99	99 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)	M	M					
Mobile telephone service	C	M					
Internet service	C	М					
Foreign ownership (not allowed, restricted, allowed)	R A	R C					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	Α	· · ·					
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.4	3.9	2.6				
Telecommunications investment (% of revenue)	14.4	12.1	16.8				
Sector performance Access	50.0	50.5	20.0				
Fixed-telephone subscriptions (per 100 people)	50.8	59.5	39.9				
Mobile-cellular telephone subscriptions (per 100 people)	81.5 25.9	115.5 38.8	123.3 28.0				
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	79.7a		80.3				
Households with Internet access at home (%)	92.7	98.5	81.0				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)	3.2	2.8					
Domestic mobile traffic (minutes/subscription/month)	175.8	167.1	188.0				
Individuals using the Internet (%)	73.5	84.3	80.6				
Quality							
Population covered by a mobile-cellular network (%)	80	100	100				
International Internet bandwidth (bit/s per Internet user)	1,440	45,178	131,821				
Affordability		6.2	23.7				
Fixed-telephone sub-basket (\$ a month)		18.6	23.7 18.7				
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		27.4	26.9				
Trade							
ICT goods exports (% of total goods exports)	30.0	19.1	8.2				
ICT goods imports (% of total goods imports)	15.2	10.4	10.5				
ICT service exports (% of total service exports)	19.1	22.0	30.3				
Applications							
Online service index (0-1, 1=highest presence)	0.83	0.98	0.67				
Secure Internet servers (per million people)	20.0	2,178.3	928.0				

Kosovo

		iladio	Lower middle
	Countr	y data	income
	2005	2014	2014
Economic and social context			
Population (millions)	2	2	2,879
Urban population (% of total)			39
GNI per capita, World Bank Atlas method (\$)	2,540	4,000	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	6.4	3.7	5.
Adult literacy rate (% ages 15 and older)			7.
Gross primary, secondary, tertiary school enrollment (%)	**		6
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	No	
Reg. treatment of VoIP (banned, closed, no framework, allowe	ed) B	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			2.
Telecommunications investment (% of revenue)		••	19.
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)			4.
Mobile-cellular telephone subscriptions (per 100 people)			87.
Fixed-broadband subscriptions (per 100 people)			2.
Households with a computer (%)			17.
Households with Internet access at home (%)			18.
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			8.
Domestic mobile traffic (minutes/subscription/month)			147.
Individuals using the Internet (%)		••	22.
Quality			
Population covered by a mobile-cellular network (%)			9
International Internet bandwidth (bit/s per Internet user)			10,61
Affordability			
Fixed-telephone sub-basket (\$ a month)			5.
Mobile-cellular sub-basket (\$ a month)			7.
Fixed-broadband sub-basket (\$ a month)	••		18.
Trade			
ICT goods exports (% of total goods exports)			6.
ICT goods imports (% of total goods imports)			8.
ICT service exports (% of total service exports)	4.7	19.9	51.
Applications			
Online service index (0-1, 1=highest presence)			0.2
Secure Internet servers (per million people)			5.

Kuwait

	Count	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	2	4	1,399
Urban population (% of total)	98	98	81
GNI per capita, World Bank Atlas method (\$)	34,600	52,000	38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	9.0	2.2	1.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	93 86	96 	99 95
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	М	
Mobile telephone service	Р	M	
Internet service	Р	M	
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)	3.5		2.6
Telecommunications investment (% of revenue)	27.0		16.8
Sector performance			
Access Fixed telephone subscriptions (per 100 people)	22.0	14.2	39.9
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	60.2	218.4	123.3
Fixed-broadband subscriptions (per 100 people)	1.1	1.4	28.0
Households with a computer (%)	32.0	87.8	80.3
Households with Internet access at home (%)	27.0	75.4	81.0
Trouserroids with internet decess at frome (78)	21.0	15.4	01.0
Usage Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			188.0
Individuals using the Internet (%)	25.9	78.7	80.6
mulviouals using the internet (N)	20.0		00.0
Quality Population covered by a mobile-cellular network (%)	100	100	100
International Internet bandwidth (bit/s per Internet user)	1,481	50,096	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		10.2	23.7
Mobile-cellular sub-basket (\$ a month)		15.1	18.7
Fixed-broadband sub-basket (\$ a month)		14.1	26.9
Trade			
ICT goods exports (% of total goods exports)	0.2	0.1	8.2
ICT goods imports (% of total goods imports)	5.0	6.8	10.5
ICT service exports (% of total service exports)	52.2	49.3	30.3
Applications	0.50	0.55	0.0=
Online service index (0-1, 1=highest presence)	0.52	0.57	0.67
Secure Internet servers (per million people)	35.3	198.8	928.0

Kyrgyz Republic

Europe & Central Asia	Lower m	iddle	income
	Countr	y data	Lower middle- income group
	2005	2014	2014
Economic and social context			
Population (millions)	5	6	2,879
Urban population (% of total)	35	36	39
GNI per capita, World Bank Atlas method (\$)	450	1,250	2,012
GDP growth, 2000–05 and 2005–14 (avg. annual %)	4.1	4.5	5.9
Adult literacy rate (% ages 15 and older)			73
Gross primary, secondary, tertiary school enrollment (%)	79	79	67
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	M	
Mobile telephone service Internet service	C	M M	
Foreign ownership (not allowed, restricted, allowed)	R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowe		A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.5	7.1	2.3
Telecommunications investment (% of revenue)	3.2	3.5	19.8
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 (%)	8.7 10.7 0.0 1.0 0.8	7.9 134.5 4.2 17.6 12.0	4.0 87.1 2.4 17.0 18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		16.0	8.8
Domestic mobile traffic (minutes/subscription/month)		252.4	147.6
Individuals using the Internet (%)	10.5	28.3	22.6
Quality			
Population covered by a mobile-cellular network (%)	42	98	94
International Internet bandwidth (bit/s per Internet user)	516	8,166	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		1.3	5.0
Mobile-cellular sub-basket (\$ a month)		5.5	7.7
Fixed-broadband sub-basket (\$ a month)		11.9	18.6
Trade			
ICT goods exports (% of total goods exports)	0.1	0.1	6.2
ICT goods imports (% of total goods imports)	3.3	2.2	8.0
ICT service exports (% of total service exports)	26.4	14.4	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.42	0.28	0.24
Secure Internet servers (per million people)	0.6	9.1	5.9

Lao PDR

East Asia & Pacific	Lower n	niddle	income
			Lower middle- income
	Count		group
	2005	2014	2014
Economic and social context		_	0.070
Population (millions)	6	7	2,879
Urban population (% of total) GNI per capita, World Bank Atlas method (\$)	27 460	38 1.650	39 2,012
GDP growth, 2000–05 and 2005–14 (avg. annual %)	6.2	8.0	5.9
Adult literacy rate (% ages 15 and older)	73		73
Gross primary, secondary, tertiary school enrollment (%)	58	61	67
Sector structure			
Separate telecommunications/ICT regulator	No	Yes	
Status of main fixed-line telephone operator	Public	Mixed	
Level of competition (competition, partial comp., monopoly)	М	M	
International gateway(s) Mobile telephone service	M P	M M	
Internet service	, P	M	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed	i) B	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	1.7	3.5	2.3
Telecommunications investment (% of revenue)	63.0	57.7	19.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	1.6	13.4	4.0
Mobile-cellular telephone subscriptions (per 100 people)	11.4	67.0	87.1
Fixed-broadband subscriptions (per 100 people)	0.0	0.2	2.4
Households with a computer (%)	2.0	10.5	17.0
Households with Internet access at home (%)	1.0	5.2	18.3
Usage		2.4	8.8
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	59.6	3.4 9.4	
Individuals using the Internet (%)	0.9	14.3	22.6
Quality Population covered by a mobile-cellular network (%)	55	96	94
International Internet bandwidth (bit/s per Internet user)	406	2,848	
Affordability			
Fixed-telephone sub-basket (\$ a month)		4.8	
Mobile-cellular sub-basket (\$ a month)		7.1	7.7
Fixed-broadband sub-basket (\$ a month)		16.6	18.6
Trade			6
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	••		6.2 8.0
ICT service exports (% of total service exports)			51.1
Applications			
Online service index (0-1, 1=highest presence)	0.24	0.14	0.24
Secure Internet servers (per million people)	0.3	2.1	5.9

Latvia

	Count	Country data		Country data i	
•	2005	2014	group 2014		
Economic and social context					
Population (millions)	2	2	1,399		
Urban population (% of total)	68	67	81		
GNI per capita, World Bank Atlas method (\$)	7,760	15,660	38,317		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	8.4	0.3	1.1		
Adult literacy rate (% ages 15 and older)	100	100	99		
Gross primary, secondary, tertiary school enrollment (%)	95	91	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)	М	М			
Mobile telephone service	С	Р			
Internet service	С	С			
Foreign ownership (not allowed, restricted, allowed)	Α	Α			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	Α	Α			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	3.6	2.4	2.6		
Telecommunications investment (% of revenue)		26.4	16.8		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	32.8	19.0	39.9		
Mobile-cellular telephone subscriptions (per 100 people)	84.0	124.2	123.3		
Fixed-broadband subscriptions (per 100 people)	2.7	24.7	28.0		
Households with a computer (%)	32.0	73.5	80.3		
Households with Internet access at home (%)	30.5	73.4	81.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	3.7				
Domestic mobile traffic (minutes/subscription/month)	72.2	186.3	188.0		
Individuals using the Internet (%)	46.0	75.8	80.6		
Quality					
Population covered by a mobile-cellular network (%)	98	99	100		
International Internet bandwidth (bit/s per Internet user)	2,713	93,683	131,821		
Affordability					
Fixed-telephone sub-basket (\$ a month)		11.0	23.7		
Mobile-cellular sub-basket (\$ a month)		11.9	18.7		
Fixed-broadband sub-basket (\$ a month)		19.8	26.9		
Trade					
ICT goods exports (% of total goods exports)	2.0	7.7	8.2		
ICT goods imports (% of total goods imports)	5.8	7.0	10.5		
ICT service exports (% of total service exports)	15.1	22.6	30.3		
Applications					
Online service index (0-1, 1=highest presence)	0.59	0.70	0.67		
Secure Internet servers (per million people)	38.9	360.7	928.0		

Lebanon

Middle East & North Africa	Upper n	pper middle in		
	Count	Country data		
	2005	2014	group 2014	
Economic and social context				
Population (millions)	4	5	2,361	
Urban population (% of total)	87	88	62	
GNI per capita, World Bank Atlas method (\$)	5,740	9,800	7,873	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.2	5.6	6.0	
Adult literacy rate (% ages 15 and older)	90		94	
Gross primary, secondary, tertiary school enrollment (%)	78	77	80	
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)	M	M		
Mobile telephone service	M	M		
Internet service	M	С		
Foreign ownership (not allowed, restricted, allowed)	No	No		
Reg. treatment of VoIP (banned, closed, no framework, allowe	ed) B	В		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	8.1		2.4	
Telecommunications investment (% of revenue)			19.7	
Sector performance				
Access Fixed-telephone subscriptions (per 100 people)	15.9	19.4	17.6	
Mobile-cellular telephone subscriptions (per 100 people)	24.9	88.3	101.4	
Fixed-broadband subscriptions (per 100 people)	3.3	22.8	101.4	
Households with a computer (%)	24.0	81.0	46.0	
Households with Internet access at home (%)	4.4	68.4	45.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	88.5		1.6	
Domestic mobile traffic (minutes/subscription/month)	190.6		293.4	
Individuals using the Internet (%)	10.1	74.7	47.7	
Quality				
Population covered by a mobile-cellular network (%)	100	99	99	
International Internet bandwidth (bit/s per Internet user)	717	23,992	21,253	
Affordability				
Fixed-telephone sub-basket (\$ a month)		11.3	8.9	
Mobile-cellular sub-basket (\$ a month)		23.9	12.4	
Fixed-broadband sub-basket (\$ a month)		17.5	17.3	
Trade				
ICT goods exports (% of total goods exports)	1.8	0.9	18.0	
ICT goods imports (% of total goods imports)	3.3	3.1	15.1	
ICT service exports (% of total service exports)	42.4	34.8	27.4	
Applications	0.40	0.6-	0.00	
Online service index (0-1, 1=highest presence)	0.48	0.35	0.37	
Secure Internet servers (per million people)	8.5	54.5	23.3	

Lesotho

Sub-Saharan Africa	Lower middle inco		
	Countr	Country data	
	2005	2014	group 2014
Economic and social context	2003	2017	2017
Population (millions)	2	2	2,879
Urban population (% of total)	22	27	39
GNI per capita, World Bank Atlas method (\$)	910	1,340	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.8	4.9	5.9
Adult literacy rate (% ages 15 and older)	86		73
Gross primary, secondary, tertiary school enrollment (%)	64	65	67
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	M	
Mobile telephone service Internet service	M M	M M	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allower		No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	0.6	4.6	2.3
Telecommunications investment (% of revenue)	20.9	12.2	19.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	2.5	2.4	4.0
Mobile-cellular telephone subscriptions (per 100 people)	13.0	101.9	87.1
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	0.0 3.0	0.1 6.9	2.4 17.0
Households with Internet access at home (%)	0.6	6.5	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		31.1	8.8
Domestic mobile traffic (minutes/subscription/month)	26.2	21.4	147.6
Individuals using the Internet (%)	2.6	11.0	22.6
Quality		_	
Population covered by a mobile-cellular network (%)	29	81	94
International Internet bandwidth (bit/s per Internet user)	86	2,410	10,618
Affordability		40.5	
Fixed-telephone sub-basket (\$ a month)		10.5	5.0
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		16.1 25.9	7.7 18.6
Trade			
ICT goods exports (% of total goods exports)	3.3		6.2
ICT goods imports (% of total goods imports)	1.1		8.0
ICT service exports (% of total service exports)	11.9	24.3	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.38	0.16	0.24
Secure Internet servers (per million people)	0.5	1.4	5.9



Sub-Saharan Africa Low income

	Country data		Low- income
-	2005	2014	group 2014
Economic and social context			
Population (millions)	3	4	622
Urban population (% of total)	46	49	30
GNI per capita, World Bank Atlas method (\$)	120	370	626
GDP growth, 2000-05 and 2005-14 (avg. annual %)	-6.4	7.0	6.1
Adult literacy rate (% ages 15 and older)	43		57
Gross primary, secondary, tertiary school enrollment (%)			59
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	M	M	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	Α	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	С	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	8.1	0.1	
Telecommunications investment (% of revenue)	••	23.1	
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	0.1	0.2	0.9
Mobile-cellular telephone subscriptions (per 100 people)	4.9	73.4	57.2
Fixed-broadband subscriptions (per 100 people)		0.1	0.2
Households with a computer (%)	0.8	2.2	4.5
Households with Internet access at home (%)		2.5	4.2
Usage		0.5	
Int'l. voice traffic, total (minutes/subscription/month)		8.5	
Domestic mobile traffic (minutes/subscription/month)	0.0	52.4	39.8
Individuals using the Internet (%)	0.6	5.4	6.3
Quality			
Population covered by a mobile-cellular network (%)	16	60a	
International Internet bandwidth (bit/s per Internet user)	••	6,306	4,196
Affordability			
Fixed-telephone sub-basket (\$ a month)			8.7
Mobile-cellular sub-basket (\$ a month)			11.7
Fixed-broadband sub-basket (\$ a month)			44.9
Trade			
ICT goods exports (% of total goods exports)			
ICT goods imports (% of total goods imports)			2.7
ICT service exports (% of total service exports)			21.5
Applications			
Online service index (0-1, 1=highest presence)	0.22	0.08	0.11
Secure Internet servers (per million people)		2.5	1.2

Libya

Middle East & North Africa	Upper n	pper middle in	
	Count	ry data	Upper middle income
	2005	2014	2014
Economic and social context			
Population (millions)	6	6	2,361
Urban population (% of total)	77	78	62
GNI per capita, World Bank Atlas method (\$)	6,860	7,910	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.4	-5.8	6.0
Adult literacy rate (% ages 15 and older)	85	90	94
Gross primary, secondary, tertiary school enrollment (%)	94		80
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)	M	M	
Mobile telephone service	M	М	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowe	ed) B	В	
Sector efficiency and capacity			2.4
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			19.
- Telecommunications investment (% of revenue)		••	13.
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	15.2	11.3	17.0
Mobile-cellular telephone subscriptions (per 100 people)	35.7	161.1	101.
Fixed-broadband subscriptions (per 100 people)		1.0	11.
Households with a computer (%)	5.0	20.6	46.
Households with Internet access at home (%)	3.0	18.1	45.
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	13.4		1.0
Domestic mobile traffic (minutes/subscription/month)	84.0		293.4
Individuals using the Internet (%)	3.9	17.8	47.
Quality			
Population covered by a mobile-cellular network (%)	71	98	9
International Internet bandwidth (bit/s per Internet user)	456	12,606	21,25
Affordability			
Fixed-telephone sub-basket (\$ a month)			8.9
Mobile-cellular sub-basket (\$ a month)			12.4
Fixed-broadband sub-basket (\$ a month)			17.
Trade			
ICT goods exports (% of total goods exports)			18.0
ICT goods imports (% of total goods imports)	4.8	3.6	15.
ICT service exports (% of total service exports)			27.
Applications	0.05	0.00	0.00
Online service index (0-1, 1=highest presence)	0.35	0.02	0.3
Secure Internet servers (per million people)	0.2	3.0	23.

Liechtenstein

	Count	Country data		Country data		Country data		Country data	High- income group
	2005	2014	2014						
Economic and social context									
Population (millions)	0.03	0.04	1,399						
Urban population (% of total)	15	14	81						
GNI per capita, World Bank Atlas method (\$)	92,360		38,317						
GDP growth, 2000-05 and 2005-14 (avg. annual %)	0.5		1.1						
Adult literacy rate (% ages 15 and older)			99						
Gross primary, secondary, tertiary school enrollment (%)	86	87	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)	М	С							
Mobile telephone service	М	С							
Internet service	M	C							
Foreign ownership (not allowed, restricted, allowed)	No	A							
Reg. treatment of VoIP (banned, closed, no framework, allowed) B	В							
Sector efficiency and capacity	0.0		0.0						
Telecommunications revenue (% of GDP)	0.8		2.6						
Telecommunications investment (% of revenue)		22.3	16.8						
Sector performance									
Access	57.6	48.4	39.9						
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	79.2	104.3	123.3						
Fixed-broadband subscriptions (per 100 people)	24.8	40.3	28.0						
Households with a computer (%)			80.3						
Households with Internet access at home (%)			81.0						
nouseholds with internet access at nome (%)			01.0						
Usage									
Int'l. voice traffic, total (minutes/subscription/month)									
Domestic mobile traffic (minutes/subscription/month)		10.0	188.0						
Individuals using the Internet (%)	63.4	95.2	80.6						
Quality									
Population covered by a mobile-cellular network (%)	94	100	100						
International Internet bandwidth (bit/s per Internet user)	6,813		131,821						
Affordability									
Fixed-telephone sub-basket (\$ a month)		29.0	23.7						
Mobile-cellular sub-basket (\$ a month)		23.4	18.7						
Fixed-broadband sub-basket (\$ a month)		47.1	26.9						
Trade									
ICT goods exports (% of total goods exports)			8.2						
ICT goods imports (% of total goods imports)			10.5						
ICT service exports (% of total service exports)			30.3						
Applications									
Online service index (0-1, 1=highest presence)	0.55	0.51	0.67						
Secure Internet servers (per million people)	1,405.9	9,762.4	928.0						

Lithuania

			High- income
	2005	ry data 2014	group 2014
Economic and social context	2003	2017	2014
Population (millions)	3	3	1,399
Urban population (% of total)	67	67	81
GNI per capita, World Bank Atlas method (\$)	10,470	15,380	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)		1.5	1.1
Adult literacy rate (% ages 15 and older)	100	100	99
Gross primary, secondary, tertiary school enrollment (%)	96	94	95
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	_		
International gateway(s)	C	C	
Mobile telephone service	C	С	
Internet service	C A	C	
Foreign ownership (not allowed, restricted, allowed)		A A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	Α	А	
Sector efficiency and capacity	3.5	1.5	2.6
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	15.6		16.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	24.4 132.5	19.5 147.0	39.9 123.3
Fixed-broadband subscriptions (per 100 people)	7.1	31.5	28.0
Households with a computer (%)	32.0		80.3
Households with Internet access at home (%)	15.8	66.0	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	6.0	6.4	
Domestic mobile traffic (minutes/subscription/month)	55.7		188.0
Individuals using the Internet (%)	36.2	72.1	80.6
Quality Population covered by a mobile collular network (%)	100	100	100
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)		125,454	
Affordability	,	,	,
Fixed-telephone sub-basket (\$ a month)		11.5	23.7
Mobile-cellular sub-basket (\$ a month)		8.8	18.7
Fixed-broadband sub-basket (\$ a month)		11.5	26.9
Trade			
ICT goods exports (% of total goods exports)	5.3	2.4	8.2
ICT goods imports (% of total goods imports)	6.4		10.5
ICT service exports (% of total service exports)	8.2	11.1	30.3
Applications Online convice index (0.1. 1 - highest precesses)	0.66	0.76	0.67
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	22.3	206.9	928.0
	22.3	200.9	920.0

Luxembourg

	Country data		High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	0.47	0.56	1,399
Urban population (% of total)	87	90	81
GNI per capita, World Bank Atlas method (\$)	70,340	69,880	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.0	1.6	1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)	76	77	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)	С	C	
Mobile telephone service	С	C	
Internet service	С	C	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	Α	Α	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	1.5	1.1	2.6
Telecommunications investment (% of revenue)	18.3	33.9	16.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	53.4	49.6	39.9
Mobile-cellular telephone subscriptions (per 100 people)	111.4	148.4	123.3
Fixed-broadband subscriptions (per 100 people)	15.3	33.3	28.0
Households with a computer (%)	75.0	96.3	80.3
Households with Internet access at home (%)	64.6	95.6	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	74.2	69.1	
Domestic mobile traffic (minutes/subscription/month)	79.7	84.9	188.0
Individuals using the Internet (%)	70.0	94.7	80.6
Quality			
Population covered by a mobile-cellular network (%)	99	100	100
International Internet bandwidth (bit/s per Internet user)	29,486	6,887,708	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		27.2	23.7
Mobile-cellular sub-basket (\$ a month)		26.9	18.7
Fixed-broadband sub-basket (\$ a month)		38.5	26.9
Trade			
ICT goods exports (% of total goods exports)	7.9	2.0	8.2
ICT goods imports (% of total goods imports)	8.4	3.8	10.5
ICT service exports (% of total service exports)	14.8	21.3	30.3
Applications			
Online service index (0-1, 1=highest presence)	0.75	0.62	0.67
Secure Internet servers (per million people)	473.0	2,645.3	928.0
/L L /		,	

Macao SAR, China

Page		Count	Country data		Country data		inc	High- income
Population (millions)				_				
Population (millions)	Fronomic and social context	2000						
GNI per capita, World Bank Atlas method (\$)		0.47	0.58	1,399				
Comparison	· · · · · · · · · · · · · · · · · · ·	100	100	81				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, 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) Moe Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity Telecommunications investment (% of revenue) 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 (%) Settor traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Quality Population covered by a mobile-cellular network (%) Individuals using the Internet (% a month) Mobile-cellular sub-basket (\$ a month) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Mobile-cellular su	GNI per capita, World Bank Atlas method (\$)	24,080	71,060	38,317				
Sector structure Sector structure Separate telecommunications/ICT regulator Public	GDP growth, 2000-05 and 2005-14 (avg. annual %)	12.8	11.9	1.1				
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 M M M Mobile telephone service Internet service 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 revenue (% of Forevenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with lnternet access at home (%) Seget traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Reg. Affordability Fixed-telephone sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Fixed-broadba	Adult literacy rate (% ages 15 and older)	93	96	99				
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 Mobile telephone service Internet service Internet service Mobile telephone service Reg. treatment of VoIP (banned, closed, no framework, allowed) Noble telephone service Mobile telephone service (% of GDP) Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 113.8 322.6 123. Fixed-broadband subscriptions (per 100 people) 113.8 322.6 123. Fixed-broadband subscriptions (per 100 people) 114.5 28.0 28.1 Households with a computer (%) 68.1 81.1 80.3 Households with Internet access at home (%) 56.9 84.3 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 37.5 30.1 Domestic mobile traffic (minutes/subscription/month) 123.1 188.1 Individuals using the Internet (%) 34.9 69.8 80.0 Quality Population covered by a mobile-cellular network (%) 100 100 100 100 100 101 100 101 100 102 101 103 26.0 Affordability Fixed-telephone sub-basket (\$ a month)	Gross primary, secondary, tertiary school enrollment (%)			95				
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) 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 (%) Sage In't'. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Against Aghorian Age (%) Affordability Fixed-telephone sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) O.9 Applications	Sector structure							
Level of competition (competition, partial comp., monopoly) International gateway(s) M M M Mobile telephone service M M M Internet service M M M Internet service M M M M Internet service M M M Foreign ownership (not allowed, restricted, allowed) No No Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5 1.4 2.6 Sector performance Access Fixed-telephone subscriptions (per 100 people) 113.8 322.6 123.3 Fixed-broadband subscriptions (per 100 people) 113.8 322.6 123.3 Fixed-broadband subscriptions (per 100 people) 114.5 28.0 28.0 Households with a computer (%) 68.1 81.1 80.3 Households with Internet access at home (%) 56.9 84.3 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 37.5 30.1 . Domestic mobile traffic (minutes/subscription/month) 123.1 . 188.0 Individuals using the Internet (%) 34.9 69.8 80.0 Quality Population covered by a mobile-cellular network (%) 100 100 100 International Internet bandwidth (bit/s per Internet user) 9,803 88,921 131,82: Affordability Fixed-telephone sub-basket (\$ a month)								
International gateway(s)	·	Public	Public					
Mobile telephone service M M M Foreign ownership (not allowed, restricted, allowed) No No Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5 1.4 2.6 Telecommunications investment (% of revenue) 16.8 10.8 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 37.3 26.7 39.9 Mobile-cellular telephone subscriptions (per 100 people) 113.8 322.6 123.3 Fixed-broadband subscriptions (per 100 people) 14.5 28.0 28.0 Households with a computer (%) 68.1 81.1 80.3 Households with Internet access at home (%) 56.9 84.3 81.0 Usage Individuals using the Internet (%) 37.5 30.1 30.1 Domestic mobile traffic (minutes/subscription/month) 123.1 188.0 Individuals using the Internet (%) 34.9 69.8 80.6								
Internet service	• • • • • • • • • • • • • • • • • • • •							
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) Households with a computer (%) Households with Internet access at home (%) Sage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Affordability Fixed-telephone sub-basket (\$ a month) Affordability Fixed-telephone sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total service exports) Applications	•							
Reg. treatment of VoIP (banned, closed, no framework, allowed) No A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5 1.4 2.6 Telecommunications investment (% of revenue) 16.8 10.8 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 37.3 26.7 39.9 Mobile-cellular telephone subscriptions (per 100 people) 14.5 28.0 28.0 Households with a computer (%) 68.1 81.1 80.3 Households with Internet access at home (%) 56.9 84.3 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 37.5 30.1 30.1 Domestic mobile traffic (minutes/subscription/month) 123.1 188.0 Individuals using the Internet (%) 34.9 69.8 80.6 Quality Population covered by a mobile-cellular network (%) 100 100 100 International Internet bandwidth (bit/s per Internet user) 9,803 88,921 131,82 Affordability <tr< td=""><td></td><td></td><td></td><td></td></tr<>								
Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.5 1.4 2.6	•							
Telecommunications revenue (% of GDP) 2.5 1.4 2.6 Telecommunications investment (% of revenue) 16.8 10.8 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 37.3 26.7 39.5 Mobile-cellular telephone subscriptions (per 100 people) 113.8 322.6 123.5 Fixed-broadband subscriptions (per 100 people) 14.5 28.0 28.6 Households with a computer (%) 68.1 81.1 80.3 Households with Internet access at home (%) 56.9 84.3 81.6 Usage Int'l. voice traffic, total (minutes/subscription/month) 37.5 30.1 Domestic mobile traffic (minutes/subscription/month) 123.1 . 188.6 Individuals using the Internet (%) 34.9 69.8 80.6 Quality Population covered by a mobile-cellular network (%) 100 100 100 International Internet bandwidth (bit/s per Internet user) 9,803 88,921 131,82: Affordability Fixed-telephone sub-basket (\$ a month)	Reg. treatment of voir (banned, closed, no framework, allowed)	INO	А					
Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Fixed-telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)		2.5	1 1	2.6				
Sector performance Access								
Mobile-cellular telephone subscriptions (per 100 people) 113.8 322.6 123.3 Fixed-broadband subscriptions (per 100 people) 14.5 28.0 28.0 Households with a computer (%) 68.1 81.1 80.3 Households with Internet access at home (%) 56.9 84.3 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 37.5 30.1	Access	27.2	26.7	20.0				
Fixed-broadband subscriptions (per 100 people) 14.5 28.0 28.1 Households with a computer (%) 68.1 81.1 80.3 Households with Internet access at home (%) 56.9 84.3 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) 37.5 30.1 30.1 Domestic mobile traffic (minutes/subscription/month) 123.1 188.0 Individuals using the Internet (%) 34.9 69.8 80.6 Quality Population covered by a mobile-cellular network (%) 100 100 100 International Internet bandwidth (bit/s per Internet user) 9,803 88,921 131,82: Affordability Fixed-telephone sub-basket (\$ a month) 8.4 23. Mobile-cellular sub-basket (\$ a month) 5.7 18. Fixed-broadband sub-basket (\$ a month) 17.3 26.5 Trade ICT goods exports (% of total goods imports) 2.8 14.9 8.2 ICT goods imports (% of total goods imports) 9.7 14.5 10.5 ICT service expo								
Households with a computer (%) 68.1 81.1 80.3 Households with Internet access at home (%) 56.9 84.3 81.0 **Usage** Int'l. voice traffic, total (minutes/subscription/month) 37.5 30.1 Domestic mobile traffic (minutes/subscription/month) 123.1 188.0 Individuals using the Internet (%) 34.9 69.8 80.0 **Quality** Population covered by a mobile-cellular network (%) 100 100 100 International Internet bandwidth (bit/s per Internet user) 9,803 88,921 131,82: **Affordability** Fixed-telephone sub-basket (\$ a month) 8.4 23. **Mobile-cellular sub-basket (\$ a month) 5.7 18. **Fixed-broadband sub-basket (\$ a month) 17.3 26.3 **Trade** ICT goods exports (% of total goods exports) 2.8 14.9 8.2 ICT goods imports (% of total service exports) 9.7 14.5 10.5 ICT service exports (% of total service exports) 0.9 0.6 30.3 **Applications**								
Households with Internet access at home (%) 56.9 84.3 81.6								
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total service exports) Applications 37.5 30.1 188.0 100 100 100 100 100 100 100 100 100 1								
Int'l. voice traffic, total (minutes/subscription/month) 37.5 30.1 Domestic mobile traffic (minutes/subscription/month) 123.1 188.0 Individuals using the Internet (%) 34.9 69.8 80.6 Quality Population covered by a mobile-cellular network (%) 100 100 100 International Internet bandwidth (bit/s per Internet user) 9,803 88,921 131,82 Affordability Fixed-telephone sub-basket (\$ a month) 8.4 23. Mobile-cellular sub-basket (\$ a month) 5.7 18. Fixed-broadband sub-basket (\$ a month) 17.3 26.9 Trade ICT goods exports (% of total goods exports) 2.8 14.9 8.2 ICT goods imports (% of total goods imports) 9.7 14.5 10.5 ICT service exports (% of total service exports) 0.9 0.6 30.3 Applications	mousenoids with internet access at nome (70)	30.9	04.5	01.0				
Domestic mobile traffic (minutes/subscription/month) 123.1 188.0	•	27.5	20.1					
Affordability			30.1	100 0				
Quality Population covered by a mobile-cellular network (%) 100 100 100 International Internet bandwidth (bit/s per Internet user) 9,803 88,921 131,82: Affordability Fixed-telephone sub-basket (\$ a month) 8.4 23. Mobile-cellular sub-basket (\$ a month) 5.7 18. Fixed-broadband sub-basket (\$ a month) 17.3 26. Trade ICT goods exports (% of total goods exports) 2.8 14.9 8.2 ICT goods imports (% of total goods imports) 9.7 14.5 10.5 ICT service exports (% of total service exports) 0.9 0.6 30.3 Applications			60.8					
Population covered by a mobile-cellular network (%)	individuals using the internet (%)	34.3	03.0	00.0				
Affordability 9,803 88,921 131,822	•	100	100	100				
Fixed-telephone sub-basket (\$ a month) 8.4 23.1 Mobile-cellular sub-basket (\$ a month) 5.7 18.1 Fixed-broadband sub-basket (\$ a month) 17.3 26.5 Trade ICT goods exports (% of total goods exports) 2.8 14.9 8.2 ICT goods imports (% of total goods imports) 9.7 14.5 10.5 ICT service exports (% of total service exports) 0.9 0.6 30.3 Applications								
Fixed-telephone sub-basket (\$ a month) 8.4 23.1 Mobile-cellular sub-basket (\$ a month) 5.7 18.1 Fixed-broadband sub-basket (\$ a month) 17.3 26.5 Trade ICT goods exports (% of total goods exports) 2.8 14.9 8.2 ICT goods imports (% of total goods imports) 9.7 14.5 10.5 ICT service exports (% of total service exports) 0.9 0.6 30.3 Applications	Affordobility							
Mobile-cellular sub-basket (\$ a month) 5.7 18.1 Fixed-broadband sub-basket (\$ a month) 17.3 26.5 Trade ICT goods exports (% of total goods exports) 2.8 14.9 8.2 ICT goods imports (% of total goods imports) 9.7 14.5 10.5 ICT service exports (% of total service exports) 0.9 0.6 30.3 Applications	· .		8.1	23.7				
Fixed-broadband sub-basket (\$ a month) 17.3 26.9 Trade ICT goods exports (% of total goods exports) 2.8 14.9 8.2 ICT goods imports (% of total goods imports) 9.7 14.5 10.5 ICT service exports (% of total service exports) 0.9 0.6 30.3 Applications				18.7				
ICT goods exports (% of total goods exports) 2.8 14.9 8.2 ICT goods imports (% of total goods imports) 9.7 14.5 10.5 ICT service exports (% of total service exports) 0.9 0.6 30.3 Applications	,			26.9				
ICT goods exports (% of total goods exports) 2.8 14.9 8.2 ICT goods imports (% of total goods imports) 9.7 14.5 10.5 ICT service exports (% of total service exports) 0.9 0.6 30.3 Applications	Trado							
ICT goods imports (% of total goods imports) 9.7 14.5 10.5 ICT service exports (% of total service exports) 0.9 0.6 30.3 Applications		2.8	14.9	8.2				
ICT service exports (% of total service exports) 0.9 0.6 30.3 Applications				10.5				
	0 ,			30.3				
	Applications							
				0.67				
Secure Internet servers (per million people) 55.5 339.2 928.0		55.5	339.2	928.0				

Macedonia, FYR

Europe & Central Asia U	pper n	per middle in	
	Count	w doto	Upper middle income
		ry data	group
	2005	2014	2014
Economic and social context	0	0	0.00
Population (millions)	2 58	2	2,36 6
Urban population (% of total) GNI per capita, World Bank Atlas method (\$)	3,010	57 5,150	7,87
GDP growth, 2000–05 and 2005–14 (avg. annual %)	2.2	2.8	6.
Adult literacy rate (% ages 15 and older)	96	98	9.
Gross primary, secondary, tertiary school enrollment (%)	68	70	8
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	M	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	5.3	4.2	2.
Telecommunications investment (% of revenue)	9.8	22.2	19.
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	25.5	18.6	17.
Mobile-cellular telephone subscriptions (per 100 people)	54.1	109.1	101.
Fixed-broadband subscriptions (per 100 people)	0.6	16.2	11.
Households with a computer (%)	24.9	70.1	46.
Households with Internet access at home (%)	12.5	68.3	45.
Usage		45.4	
Int'l. voice traffic, total (minutes/subscription/month)		15.1	1.
Domestic mobile traffic (minutes/subscription/month)	28.7	171.5	293.
Individuals using the Internet (%)	26.5	68.1	47.
Quality Population covered by a mobile-cellular network (%)	99	100	9
International Internet bandwidth (bit/s per Internet user)	62	41,812	21,25
Affordability			
Fixed-telephone sub-basket (\$ a month)		8.7	8.
Mobile-cellular sub-basket (\$ a month)		11.3	12.
Fixed-broadband sub-basket (\$ a month)		12.9	17.
Trade	0.4	0.3	18.
ICT goods exports (% of total goods exports)	4.3	0.3 4.0	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	20.8	22.6	15. 27.
Applications			
Online service index (0-1, 1=highest presence)	0.49	0.24	0.3
Secure Internet servers (per million people)	0.5	76.6	23

23.3

0.5

76.6

Secure Internet servers (per million people)

Madagascar

Sub-Saharan Africa Low income

	Countr	Country data		Country data		Country data	Low- income group
	2005	2014	2014				
Economic and social context							
Population (millions)	18	24	622				
Urban population (% of total)	29	34	30				
GNI per capita, World Bank Atlas method (\$)	290	440	626				
GDP growth, 2000–05 and 2005–14 (avg. annual %)	2.0	2.2	6.1				
Adult literacy rate (% ages 15 and older)	71 60		57 59				
Gross primary, secondary, tertiary school enrollment (%)	00	66					
Sector structure Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Mixed	Mixed					
Level of competition (competition, partial comp., monopoly)	WIIACU	WIIACU					
International gateway(s)	С	М					
Mobile telephone service	C	М					
Internet service	С	М					
Foreign ownership (not allowed, restricted, allowed)	R	R					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	С					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)	2.6	3.4					
Telecommunications investment (% of revenue)	32.8	19.4					
Sector performance							
Access	0.5	1.1	0.9				
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	2.8	38.2	57.2				
Fixed-broadband subscriptions (per 100 people)	0.0	0.1	0.2				
Households with a computer (%)	0.5	4.5	4.5				
Households with Internet access at home (%)	0.4	4.7	4.2				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)	14.7	1.6					
Domestic mobile traffic (minutes/subscription/month)	7.7	2.2	39.8				
Individuals using the Internet (%)	0.6	3.7	6.3				
Quality							
Population covered by a mobile-cellular network (%)	23	92					
International Internet bandwidth (bit/s per Internet user)	327	267	4,196				
Affordability		20.8	8.7				
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		20.8 19.3	8.7 11.7				
Fixed-broadband sub-basket (\$ a month)		58.5	44.9				
Trade							
ICT goods exports (% of total goods exports)	0.3	0.1					
ICT goods imports (% of total goods imports)	4.6	1.4	2.7				
ICT service exports (% of total service exports)	22.0	15.2	21.5				
Applications							
Online service index (0-1, 1=highest presence)	0.31	0.24	0.11				
Secure Internet servers (per million people)	0.2	0.9	1.2				



Low-

Sub-Saharan Africa Low income

			Low- income
-	Countr	y data	group
	2005	2014	2014
Economic and social context			
Population (millions)	13	17	622
Urban population (% of total)	15	16	30
GNI per capita, World Bank Atlas method (\$)	220	250	626
GDP growth, 2000–05 and 2005–14 (avg. annual %)	2.5	6.1	6.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	64	61 69	57 59
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 ubile	WINCU	
International gateway(s)	М	М	
Mobile telephone service	M	M	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	C	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.4	0.0	
Telecommunications investment (% of revenue)			
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	0.8	0.4	0.9
Mobile-cellular telephone subscriptions (per 100 people)	3.3	30.5	57.2
Fixed-broadband subscriptions (per 100 people)	0.0	0.1	0.2
Households with a computer (%)		5.2	4.5
Households with Internet access at home (%)		6.2	4.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		0.0	
Domestic mobile traffic (minutes/subscription/month)		5.2	39.8
Individuals using the Internet (%)	0.4	5.8	6.3
Quality	70	100	
Population covered by a mobile-cellular network (%)	70	100	4.400
International Internet bandwidth (bit/s per Internet user)	106	4,237	4,196
Affordability		10.0	0.7
Fixed-telephone sub-basket (\$ a month)		12.2	8.7
Mobile-cellular sub-basket (\$ a month)		12.7	11.7
Fixed-broadband sub-basket (\$ a month)		54.3	44.9
Trade	0.2	0.1	
ICT goods exports (% of total goods exports)	3.5	2.1	2.7
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	6.7	27.1	21.5
Applications			
Online service index (0-1, 1=highest presence)	0.29	0.17	0.11
Secure Internet servers (per million people)	0.2	1.1	1.2
	0.2	1.1	1.2

Malaysia

East Asia & Pacific	Upper n	pper middle incor			
	Count	ry data	Upper middle- income group		
	2005	2014	2014		
Economic and social context					
Population (millions)	26	30	2,361		
Urban population (% of total)	67	74	62		
GNI per capita, World Bank Atlas method (\$)	5,250	10,760	7,873		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.1	4.7	6.0		
Adult literacy rate (% ages 15 and older)	89	93	94		
Gross primary, secondary, tertiary school enrollment (%)	71		80		
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	M			
Mobile telephone service	C	M M			
Internet service Foreign ownership (not allowed, restricted, allowed)	R	IVI R			
Reg. treatment of VoIP (banned, closed, no framework, allowe		No			
	.u) A	110			
Sector efficiency and capacity	16	16	2.4		
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	4.6 22.5	4.6 20.5	2.2 19.7		
		20.0	10.1		
Sector performance					
Access	16.9	14.6	17.6		
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	75.6	148.8			
Fixed-broadband subscriptions (per 100 people)	1.9	10.1	11.7		
Households with a computer (%)	28.2	66.5	46.0		
Households with Internet access at home (%)	15.0	65.5	45.3		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)			1.6		
Domestic mobile traffic (minutes/subscription/month)			293.4		
Individuals using the Internet (%)	48.6	67.5	47.7		
Quality					
Population covered by a mobile-cellular network (%)	93	95	99		
International Internet bandwidth (bit/s per Internet user)	254	27,173	21,253		
Affordability					
Fixed-telephone sub-basket (\$ a month)		9.1	8.9		
Mobile-cellular sub-basket (\$ a month)		7.2	12.4		
Fixed-broadband sub-basket (\$ a month)		20.9	17.3		
Trade					
ICT goods exports (% of total goods exports)	43.4	28.2	18.0		
ICT goods imports (% of total goods imports)	38.0	22.6	15.1		
ICT service exports (% of total service exports)	19.4	29.1	27.4		
Applications					
Online service index (0-1, 1=highest presence)	0.61	0.68	0.3		
Secure Internet servers (per million people)	14.6	88.5	23.3		

Maldives

South Asia l	Upper middle income						
	Count	Country data					
				•			
	2005	2014	2014				
Economic and social context Population (millions)	0.30	0.36	2.361				
Urban population (% of total)	34	44	62				
GNI per capita, World Bank Atlas method (\$)	3.770	7.170	7.873				
GDP growth, 2000-05 and 2005-14 (avg. annual %)	7.8	6.4	6.0				
Adult literacy rate (% ages 15 and older)	98		94				
Gross primary, secondary, tertiary school enrollment (%)	77		80				
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	M M	M M					
Internet service	M	M					
Foreign ownership (not allowed, restricted, allowed)	No	No					
Reg. treatment of VoIP (banned, closed, no framework, allowed		A					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)	8.5		2.4				
Telecommunications investment (% of revenue)	15.2		19.7				
Sector performance							
Access Fixed-telephone subscriptions (per 100 people)	10.9	6.1	17.6				
Mobile-cellular telephone subscriptions (per 100 people)	68.4	189.4	101.4				
Fixed-broadband subscriptions (per 100 people)	1.1	5.9	11.7				
Households with a computer (%)	26.1ª		46.0				
Households with Internet access at home (%)	7.0	44.5	45.3				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)		33.9	1.6				
Domestic mobile traffic (minutes/subscription/month)	55.8	209.5	293.4				
Individuals using the Internet (%)	6.9	49.3	47.7				
Quality	01	100	00				
Population covered by a mobile-cellular network (%)	91 2,593	100 69,077	99 21,253				
International Internet bandwidth (bit/s per Internet user)	2,393	09,077	21,203				
Affordability Fixed-telephone sub-basket (\$ a month)		3.4	8.9				
Mobile-cellular sub-basket (\$ a month)		5.7	12.4				
Fixed-broadband sub-basket (\$ a month)		13.0	17.3				
Trade							
ICT goods exports (% of total goods exports)	0.2		18.0				
ICT goods imports (% of total goods imports)	11.2	5.1	15.1				
ICT service exports (% of total service exports)			27.4				
Applications							
Online service index (0-1, 1=highest presence)	0.45	0.36	0.37				
Secure Internet servers (per million people)	6.6	86.7	23.3				



ncome

	Countr	Country data	
-	2005	2014	group 2014
Economic and social context			
Population (millions)	13	17	622
Urban population (% of total)	32	39	30
GNI per capita, World Bank Atlas method (\$)	400	660	626
GDP growth, 2000–05 and 2005–14 (avg. annual %)	5.9	4.0	6.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	26 	34 56	57 59
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	P	M	
Internet service	C	M	
Foreign ownership (not allowed, restricted, allowed)	No B	A B	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.7	7.0	
Telecommunications investment (% of revenue)	25.8	16.1	
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	0.6	1.0	0.9
Mobile-cellular telephone subscriptions (per 100 people)	6.4	149.0	57.2
Fixed-broadband subscriptions (per 100 people)	0.0	0.0	0.2
Households with a computer (%)	1.0	8.2	4.5
Households with Internet access at home (%)	0.7	6.7	4.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	5.0	3.7	
Domestic mobile traffic (minutes/subscription/month)	9.9	15.7	39.8
Individuals using the Internet (%)	0.5	7.0	6.3
Quality	20		
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	429	1,879	4,196
Affordability			
Fixed-telephone sub-basket (\$ a month)		7.9	8.7
Mobile-cellular sub-basket (\$ a month)		14.8	11.7
Fixed-broadband sub-basket (\$ a month)		47.8	44.9
Trade			
ICT goods exports (% of total goods exports)	0.2	0.0	
ICT goods imports (% of total goods imports)	2.2	3.6	2.7
ICT service exports (% of total service exports)	21.9	42.5	21.5
Applications Online convice index (0.1. 1-highest precents)	0.16	0.13	0.11
Online service index (0-1, 1=highest presence)	0.16	1.3	1.2
Secure Internet servers (per million people)	0.1	1.3	1.2

Malta

	Count	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	0.40	0.43	1,399
Urban population (% of total)	94	95	81
GNI per capita, World Bank Atlas method (\$)	14,390	21,000	38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	0.8	2.0	1.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	92 77	93 77	99 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)	MIXOU	11114410	
International gateway(s)	С	С	
Mobile telephone service	C	C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	5.4	2.6	2.6
Telecommunications investment (% of revenue)	24.7	22.3	16.8
Sector performance			
Access	40.7	F2.0	20.0
Fixed-telephone subscriptions (per 100 people)	48.7	53.6	39.9
Mobile-cellular telephone subscriptions (per 100 people)	78.1	127.0	123.3 28.0
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	12.4 46.0	35.2 82.2	80.3
Households with Internet access at home (%)	40.6	80.7	81.0
nousenoids with internet access at nome (%)	40.0	60.7	01.0
Usage		9.7	
Int'l. voice traffic, total (minutes/subscription/month)	40.3	9.7	188.0
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	41.2	73.2	80.6
maniadad doing are internet (19)		.0.2	00.0
Quality Population covered by a mobile-cellular network (%)	99	100	100
International Internet bandwidth (bit/s per Internet user)	4,531	1,178,759	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		13.0	23.7
Mobile-cellular sub-basket (\$ a month)		19.9	18.7
Fixed-broadband sub-basket (\$ a month)		18.4	26.9
Trade			
ICT goods exports (% of total goods exports)	45.2	18.8	8.2
ICT goods imports (% of total goods imports)	25.5	11.5	10.5
ICT service exports (% of total service exports)	15.3	26.0	30.3
Applications			
Online service index (0-1, 1=highest presence)	0.66	0.40	0.67
Secure Internet servers (per million people)	331.8	1,691.6	928.0

Marshall Islands

East Asia & Pacific	Upper n	per middle i			per middle in	
	Count	ry data	Upper middle income			
	2005	2014	group 2014			
Economic and social context	2003	2017	2014			
Population (millions)	0.05	0.05	2,363			
Urban population (% of total)	70	72	62			
GNI per capita, World Bank Atlas method (\$)	3,570	4,300	7,873			
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.8	1.7	6.0			
Adult literacy rate (% ages 15 and older)			94			
Gross primary, secondary, tertiary school enrollment (%)			80			
Sector structure						
Separate telecommunications/ICT regulator	No	No.				
Status of main fixed-line telephone operator	Mixed	Mixed				
Level of competition (competition, partial comp., monopoly)	М	М				
International gateway(s) Mobile telephone service	M	M				
Internet service	M	M				
Foreign ownership (not allowed, restricted, allowed)	No	No				
Reg. treatment of VoIP (banned, closed, no framework, allowe		A				
Sector efficiency and capacity						
Telecommunications revenue (% of GDP)	5.0		2			
Telecommunications investment (% of revenue)			19.			
Sector performance						
Access	40.0	4.5	47			
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	10.6 1.3	4.5 29.4	17. 101.			
Fixed-broadband subscriptions (per 100 people)	1.5	29.4	101.			
Households with a computer (%)		2.0	46.			
Households with Internet access at home (%)			45.			
Usage						
Int'l. voice traffic, total (minutes/subscription/month)			1.			
Domestic mobile traffic (minutes/subscription/month)			293.			
Individuals using the Internet (%)	3.9	16.8	47.			
Quality						
Population covered by a mobile-cellular network (%)			9:			
International Internet bandwidth (bit/s per Internet user)	1,153	87,416	21,25			
Affordability		45.8	8.			
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		45.8 22.2	12.			
Fixed-broadband sub-basket (\$ a month)		50.0	17.			
Trade						
ICT goods exports (% of total goods exports)			18.			
ICT goods imports (% of total goods imports)			15.			
ICT service exports (% of total service exports)			27.			
Applications						
Online service index (0-1, 1=highest presence)	0.00	0.11	0.3			
Secure Internet servers (per million people)	19.2	18.9	23.			

Mauritania

Sub-Saharan Africa	Lower m	wer middle i			wer middle i	
	Countr	y data	Lower middle- income group			
	2005	2014	_			
Economic and social context						
Population (millions)	3	4	2,879			
Urban population (% of total)	53	59	39			
GNI per capita, World Bank Atlas method (\$)	690	1,270	2,012			
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.5	4.2	5.9			
Adult literacy rate (% ages 15 and older)	46		73			
Gross primary, secondary, tertiary school enrollment (%)	45	50	67			
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	M				
Mobile telephone service	M	M				
Internet service	M	M				
Foreign ownership (not allowed, restricted, allowed)	Α	Α				
Reg. treatment of VoIP (banned, closed, no framework, allowed	i) B	С				
Sector efficiency and capacity						
Telecommunications revenue (% of GDP)	5.8	4.9	2.3			
Telecommunications investment (% of revenue)	19.2	20.0	19.8			
Sector performance						
Access						
Fixed-telephone subscriptions (per 100 people)	1.3	1.3	4.0			
Mobile-cellular telephone subscriptions (per 100 people)	23.7	94.2	87.1			
Fixed-broadband subscriptions (per 100 people)	0.0	0.2	2.4			
Households with a computer (%)	1.6	4.4	17.0			
Households with Internet access at home (%)	0.6	6.2	18.3			
Usage						
Int'l. voice traffic, total (minutes/subscription/month)	8.7	5.2	8.8			
Domestic mobile traffic (minutes/subscription/month)	47.1	68.0	147.6			
Individuals using the Internet (%)	0.7	10.7	22.6			
Quality						
Population covered by a mobile-cellular network (%)	26		94			
International Internet bandwidth (bit/s per Internet user)	2,135	1,454	10,618			
Affordability						
Fixed-telephone sub-basket (\$ a month)		16.5	5.0			
Mobile-cellular sub-basket (\$ a month)		14.1	7.7			
Fixed-broadband sub-basket (\$ a month)		20.9	18.6			
Trade						
ICT goods exports (% of total goods exports)			6.2			
ICT goods imports (% of total goods imports)	1.4	0.7	8.0			
ICT service exports (% of total service exports)		50.5	51.1			
Applications						
Online service index (0-1, 1=highest presence)	0.20	0.05	0.24			
Secure Internet servers (per million people)	0.3	2.5	5.9			
	0.0		5.0			

Mauritius

Sub-Saharan Africa U	pper n	per middle ir	
	Count	ry data	Upper middle income
	2005	2014	group 2014
Economic and social context	2000		
Population (millions)	1	1	2,363
Urban population (% of total)	42	40	62
GNI per capita, World Bank Atlas method (\$)	5,420	9,710	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.3	4.0	6.0
Adult literacy rate (% ages 15 and older)	84	89	94
Gross primary, secondary, tertiary school enrollment (%)	77	86	80
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	С	
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	4.4	2.6	2
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	12.9	55.5	19.
- Telegoninalizations investment (% of revenue)	12.5		15.
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	29.5	29.8	17.
Mobile-cellular telephone subscriptions (per 100 people)	54.2	132.2	101.
Fixed-broadband subscriptions (per 100 people)	0.4	14.6	11.
Households with a computer (%)	22.5	51.3	46.
Households with Internet access at home (%)	15.0	47.5	45.
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	14.5	10.0	1.
Domestic mobile traffic (minutes/subscription/month)	80.8	126.6	293.
Individuals using the Internet (%)	15.2	41.4	47.
Quality			
Population covered by a mobile-cellular network (%)	100	99	9
International Internet bandwidth (bit/s per Internet user)	832	32,990	21,25
Affordability			-
Fixed-telephone sub-basket (\$ a month)		5.1	8.
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		6.1 6.5	12 17
Trade			
ICT goods exports (% of total goods exports)	13.3	2.8	18.
ICT goods exports (% of total goods exports)	12.8	5.6	15.
ICT service exports (% of total service exports)	18.5	37.0	27.
Applications			
Online service index (0-1, 1=highest presence)	0.51	0.47	0.3
Secure Internet servers (per million people)	18.7	154.6	23.



Latin America & Caribbean l	Jpper n	oper middle i		
	Count	Country data		
	2005	2014	group 2014	
Economic and social context	2000			
Population (millions)	110	125	2.361	
Urban population (% of total)	76	79	62	
GNI per capita, World Bank Atlas method (\$)	7.720	9.860	7.873	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.7	2.1	6.0	
Adult literacy rate (% ages 15 and older)	92	94	94	
Gross primary, secondary, tertiary school enrollment (%)	73	78	80	
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)	M	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	2.5	2.6	2.4	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	15.9	2.0	2.4 19.7	
- Telecommunications investment (% of revenue)	13.9	22.2	13.1	
Sector performance Access				
Fixed-telephone subscriptions (per 100 people)	17.6	17.0	17.6	
Mobile-cellular telephone subscriptions (per 100 people)	42.6	82.5	101.4	
Fixed-broadband subscriptions (per 100 people)	1.7	11.6	11.7	
Households with a computer (%)	18.6	38.3	46.0	
Households with Internet access at home (%)	8.9	34.4	45.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)			1.6	
Domestic mobile traffic (minutes/subscription/month)	45.8	114.1	293.4	
Individuals using the Internet (%)	17.2a	44.4	47.7	
Quality				
Population covered by a mobile-cellular network (%)	100	100	99	
International Internet bandwidth (bit/s per Internet user)	708	20,926	21,253	
Affordability		40.0	0.0	
Fixed-telephone sub-basket (\$ a month)		18.8	8.9	
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		11.2 13.2	12.4 17.3	
Trade				
ICT goods exports (% of total goods exports)	18.0	16.3	18.0	
ICT goods imports (% of total goods imports)	17.1	17.1	15.1	
ICT service exports (% of total service exports)			27.4	
Applications				
Applications Online service index (0-1, 1=highest presence)	0.59	0.66	0.37	
Secure Internet servers (per million people)	7.9	34.1	23.3	
occurs internet servers (per million people)	1.5	0 1.1	20.0	

Micronesia, Fed. Sts.

East Asia & Pacific	Lower m	wer middle i			ower middle in	
	Countr	v data	Lower middle- income			
	2005	2014	group 2014			
Economic and social context						
Population (millions)	0.11	0.10	2,879			
Urban population (% of total)	22	22	39			
GNI per capita, World Bank Atlas method (\$)	2,550	3,270	2,012			
GDP growth, 2000-05 and 2005-14 (avg. annual %)	0.4	0.0	5.9			
Adult literacy rate (% ages 15 and older)			73			
Gross primary, secondary, tertiary school enrollment (%)	75		67			
Sector structure						
Separate telecommunications/ICT regulator	No	No				
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	M	M				
Foreign ownership (not allowed, restricted, allowed)	No	No				
Reg. treatment of VoIP (banned, closed, no framework, allowe		A				
Sector efficiency and capacity						
Telecommunications revenue (% of GDP)	4.8		2.3			
Telecommunications investment (% of revenue)	13.2		19.8			
Sector performance						
Access						
Fixed-telephone subscriptions (per 100 people)	11.7	6.8	4.0			
Mobile-cellular telephone subscriptions (per 100 people)	13.3 0.0	30.3 3.0	87.1 2.4			
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)			17.0			
Households with a computer (%)			18.3			
Usage						
Int'l. voice traffic, total (minutes/subscription/month)			8.8			
Domestic mobile traffic (minutes/subscription/month)	44.2		147.6			
Individuals using the Internet (%)	11.9	29.7	22.6			
Quality						
Population covered by a mobile-cellular network (%)			94			
International Internet bandwidth (bit/s per Internet user)	476	8,115	10,618			
Affordability			_			
Fixed-telephone sub-basket (\$ a month)		79.5	5.0			
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		13.6 33.0	7.7 18.6			
Trade						
ICT goods exports (% of total goods exports)			6.2			
ICT goods imports (% of total goods imports)	2.8		8.0			
ICT service exports (% of total service exports)		13.1	51.1			
Applications						
Online service index (0-1, 1=highest presence)	0.00	0.19	0.24			
Secure Internet servers (per million people)	18.8	19.3	5.9			

Moldova

Europe & Central Asia	Lower		income
	Count	try data	Lower middle- income group
	2005	2014	2014
Economic and social context			
Population (millions)	4	4	2,879
Urban population (% of total)	45	45	39
GNI per capita, World Bank Atlas method (\$)	890	2,550	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	7.1	3.6	5.9
Adult literacy rate (% ages 15 and older)	97	99	73
Gross primary, secondary, tertiary school enrollment (%)	71	71	67
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	С	
Mobile telephone service	C	С	
Internet service	C	С	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowe	d) No	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	9.7	4.3	2.3
Telecommunications investment (% of revenue)	31.4	30.1	19.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	24.7	35.2	4.0
Mobile-cellular telephone subscriptions (per 100 people)	28.9	108.0	87.1
Fixed-broadband subscriptions (per 100 people)	0.3	14.7	2.4
Households with a computer (%)	7.0	52.4	17.0
Households with Internet access at home (%)	2.3	47.5	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	22.2	15.5	8.8
Domestic mobile traffic (minutes/subscription/month)	36.4	112.9	147.6
Individuals using the Internet (%)	14.6	46.6	22.6
Quality			
Population covered by a mobile-cellular network (%)	97	99	94
International Internet bandwidth (bit/s per Internet user)	744	152,362	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		0.5	5.0
Mobile-cellular sub-basket (\$ a month)		10.2	7.7
Fixed-broadband sub-basket (\$ a month)		12.7	18.6
Trade			
ICT goods exports (% of total goods exports)	0.3	0.2	6.2
ICT goods imports (% of total goods imports)	3.6	3.3	8.0
ICT service exports (% of total service exports)	21.2	24.8	51.1
Annlications			
Applications Online service index (0-1, 1=highest presence)	0.45	0.53	0.24

Monaco

	Count	ry data	High- income
	2005	2014	group 2014
Economic and social context			
Population (millions)	0.03	0.04	1,399
Urban population (% of total)	100	100	81
GNI per capita, World Bank Atlas method (\$)	128,380		38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.7		1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)			95
Sector structure			
Separate telecommunications/ICT regulator	No		
Status of main fixed-line telephone operator	Private	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	М	
Mobile telephone service	М	М	
Internet service	М	М	
Foreign ownership (not allowed, restricted, allowed)	Α	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed	l) B	В	
Sector efficiency and capacity	- 4		
Telecommunications revenue (% of GDP)	5.4		2.6
Telecommunications investment (% of revenue)	7.6		16.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	100.5	133.0	39.9
Mobile-cellular telephone subscriptions (per 100 people)	50.8		123.3
Fixed-broadband subscriptions (per 100 people)	28.1		28.0
Households with a computer (%)	63.5		80.3
Households with Internet access at home (%)	40.1		81.0
Households with internet access at nome (%)	40.1	14.1	01.0
Usage	044.5	1110	
Int'l. voice traffic, total (minutes/subscription/month)	241.5		100.0
Domestic mobile traffic (minutes/subscription/month)	49.0		188.0
Individuals using the Internet (%)	55.5	92.4	80.6
Quality	400	400	400
Population covered by a mobile-cellular network (%)	100		100
International Internet bandwidth (bit/s per Internet user)	6,129	227,447	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		21.2	23.7
Mobile-cellular sub-basket (\$ a month)		52.6	18.7
Fixed-broadband sub-basket (\$ a month)		45.9	26.9
Trade			
ICT goods exports (% of total goods exports)			8.2
ICT goods imports (% of total goods imports)			10.5
ICT service exports (% of total service exports)			30.3
Applications			
Online service index (0-1, 1=highest presence)	0.00	0.22	0.67
Secure Internet servers (per million people)	709.9	3,216.1	928.0

Mongolia

	111 U	nyu	JIIU
East Asia & Pacific	Upper n	niddle	income
			Upper middle- income
	Count	ry data	group
	2005	2014	2014
Economic and social context			
Population (millions)	3	3	2,361
Urban population (% of total)	62	71	62
GNI per capita, World Bank Atlas method (\$)	900	4,280	7,873
GDP growth, 2000–05 and 2005–14 (avg. annual %) Adult literacy rate (% ages 15 and older)	6.7 98	8.9 98	6.0 94
Gross primary, secondary, tertiary school enrollment (%)	79	89	80
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	M	
Mobile telephone service	P	M	
Internet service	C R	M R	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowe		No.	
Tieg. treatment of von (banned, closed, no namework, anower	u) A	110	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	3.3 15.1	3.6 19.1	2.4 19.7
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 (%)	6.2 22.1 0.1 6.3 2.3	7.9 105.1 6.8 35.8 29.0	17.6 101.4 <i>11.7</i> 46.0 45.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		4.2	1.6
Domestic mobile traffic (minutes/subscription/month)	0.3	99.4	293.4
Individuals using the Internet (%)	9.0	27.0	47.7
Quality	20	0.4	0.0
Population covered by a mobile-cellular network (%)	29	91	99
International Internet bandwidth (bit/s per Internet user)	5,138	89,976	21,253
Affordability			
Fixed-telephone sub-basket (\$ a month)		5.5	8.9
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		4.7 8.5	12.4 17.3
Trade			
ICT goods exports (% of total goods exports)	0.0	0.2	18.0
ICT goods imports (% of total goods imports)	5.0	3.5	15.1
ICT service exports (% of total service exports)	6.0	35.8	27.4
Applications			
Online service index (0-1, 1=highest presence)	0.47	0.61	0.37
Cooura Internet convers (nor million needle)	2.0	20 E	22.2

23.3

3.2

28.5

Secure Internet servers (per million people)

Montenegro

Europe & Central Asia	Upper n	per middle i			pper middle in		pper middle i	
	Counti	y data	Upper middle income					
	2005	2014	group 2014					
Economic and social context								
Population (millions)	0.61	0.62	2,363					
Urban population (% of total)	62	64	62					
GNI per capita, World Bank Atlas method (\$)	3,660	7,240	7,873					
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.8	2.4	6.0					
Adult literacy rate (% ages 15 and older)		98						
Gross primary, secondary, tertiary school enrollment (%)	75	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)	0							
International gateway(s)	C	M						
Mobile telephone service	C	C						
Internet service	C	C						
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowe	No ed) No	A A						
Sector officions and conscitu								
Sector efficiency and capacity Telecommunications revenue (% of GDP)			2.					
Telecommunications investment (% of revenue)			19.					
Sector performance								
Access								
Fixed-telephone subscriptions (per 100 people)	27.8	26.5	17.					
Mobile-cellular telephone subscriptions (per 100 people)	88.2	163.0						
Fixed-broadband subscriptions (per 100 people)	1.2	15.2						
Households with a computer (%) Households with Internet access at home (%)	18.6 13.0	54.7 56.6						
Usage								
Int'l. voice traffic, total (minutes/subscription/month)			1.					
Domestic mobile traffic (minutes/subscription/month)	110.7		293.					
Individuals using the Internet (%)	27.1	61.0						
Quality								
Population covered by a mobile-cellular network (%)	99	100	9					
International Internet bandwidth (bit/s per Internet user)	1,438	77,016	21,25					
Affordability								
Fixed-telephone sub-basket (\$ a month)		8.1	8.					
Mobile-cellular sub-basket (\$ a month)		11.6	12.					
Fixed-broadband sub-basket (\$ a month)		18.9	17.					
Trade								
ICT goods exports (% of total goods exports)		0.4	18.					
ICT goods imports (% of total goods imports)		3.7						
ICT service exports (% of total service exports)	9.5	8.2	27.					
Applications								
Online service index (0-1, 1=highest presence)	0.43	0.53						
Secure Internet servers (per million people)		56.3	23.					

Morocco

Middle East & North Africa	Lower n	ower middle i	
		Country data	
	Count		
	2005	2014	2014
Economic and social context	20	24	0.070
Population (millions)	30	34	2,879
Urban population (% of total) GNI per capita, World Bank Atlas method (\$)	55 1,960	60 2,980	39 2,012
GDP growth, 2000–05 and 2005–14 (avg. annual %)	5.0	4.3	5.9
Adult literacy rate (% ages 15 and older)	52	67	73
Gross primary, secondary, tertiary school enrollment (%)	59	67	67
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)	Α	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) C	А	
Sector efficiency and capacity	4.6	3.8	2.3
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	17.0	18.4	19.8
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	4.5 41.1 0.8 13.2 4.3	7.4 131.7 3.0 52.5 50.4	4.0 87.1 2.4 17.0 18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	12.7	9.7	8.8
Domestic mobile traffic (minutes/subscription/month)	7.8	77.4	147.6
Individuals using the Internet (%)	15.1	56.8	22.6
Quality	00	00	0.4
Population covered by a mobile-cellular network (%)	98	99	94
International Internet bandwidth (bit/s per Internet user)	1,562	10,768	10,618
Affordability		2.3	5.0
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		13.1	7.7
Fixed-broadband sub-basket (\$ a month)		11.8	18.6
Trade			
ICT goods exports (% of total goods exports)	6.0	2.9	6.2
ICT goods imports (% of total goods imports)	7.0	3.6	8.0
ICT service exports (% of total service exports)	17.0	22.7	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.29	0.69	0.24

5.9

0.7

4.9

Secure Internet servers (per million people)

Mozambique

Sub-Saharan Africa Low income

	Countr	Country data	
-	2005	2014	group 2014
Economic and social context			
Population (millions)	21	27	622
Urban population (% of total)	30	32	30
GNI per capita, World Bank Atlas method (\$)	290	620	626
GDP growth, 2000–05 and 2005–14 (avg. annual %)	8.5	6.8	6.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	48 52	60	57 59
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	М	
Mobile telephone service	C	М	
Internet service	С	М	
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)	1.5	5.9	
Telecommunications investment (% of revenue)	24.6		
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	0.3 7.2 0.0 0.6 0.8	0.3 69.7 0.0 7.3 6.2	0.9 57.2 0.2 4.5 4.2
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 25.6 0.9	 27.4 5.9	 39.8 6.3
Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	 106	 7,755	 4,196
Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		13.1 12.7 24.9	8.7 11.7 44.9
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	0.1 4.5 20.6	0.1 3.0 26.1	 2.7 21.5
Applications Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	0.26 0.1	0.31 1.8	0.11 1.2

Myanmar

East Asia & Pacific L	ower n	niddle	income
	Count	Country data	
	2005	2014	group 2014
Francis and social soutout	2005	2014	2014
Economic and social context Population (millions)	50	53	2,879
Urban population (% of total)	29	34	39
GNI per capita, World Bank Atlas method (\$)		1,270	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	12.8		5.9
Adult literacy rate (% ages 15 and older)	90	93	73
Gross primary, secondary, tertiary school enrollment (%)	53		67
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M	М	
Mobile telephone service	М	M	
Internet service	P	M	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed	No C	No No	
Sector officioney and conscity			
Sector efficiency and capacity Telecommunications revenue (% of GDP)			2.3
Telecommunications investment (% of revenue)	8.6		19.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	1.0	1.0	4.0
Mobile-cellular telephone subscriptions (per 100 people)	0.3	49.5	87.1
Fixed-broadband subscriptions (per 100 people)	0.0	0.2	2.4
Households with a computer (%)	0.3	3.4	17.0
Households with Internet access at home (%)	0.2	3.0	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	15.2		8.8
Domestic mobile traffic (minutes/subscription/month)			147.6
Individuals using the Internet (%)	0.1	2.1	22.6
Quality			
Population covered by a mobile-cellular network (%)	10	2	94
International Internet bandwidth (bit/s per Internet user)	2,871	28,668	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)			5.0
Mobile-cellular sub-basket (\$ a month)			7.7
Fixed-broadband sub-basket (\$ a month)			18.6
Trade			
ICT goods exports (% of total goods exports)		0.0	6.2
ICT goods imports (% of total goods imports)		1.7	8.0
ICT service exports (% of total service exports)		29.6	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.29	0.02	0.24
Secure Internet servers (per million people)	0.0	0.5	5.9

Namibia

Sub-Saharan Africa I	Jpper m	iddle	ncome
	Countr	Country data	
	2005		
Economic and social context			2014
Population (millions)	2	2	2,361
Urban population (% of total)	37	46	62
GNI per capita, World Bank Atlas method (\$)	3,390	5,680	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.4	4.4	6.0
Adult literacy rate (% ages 15 and older)	76		94
Gross primary, secondary, tertiary school enrollment (%)	71		80
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	C	
Mobile telephone service	M	C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed) B	A	
Sector efficiency and capacity	4.1	2.4	2.4
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	7.5	3.4 10.9	19.
— Telecommunications investment (% of revenue)	1.5	10.3	13.
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	6.9	7.8	17.0
Mobile-cellular telephone subscriptions (per 100 people)	22.1	113.8	101.
Fixed-broadband subscriptions (per 100 people)	0.0	1.8	11.
Households with a computer (%)	6.9	16.5	46.0
Households with Internet access at home (%)	3.0	17.3	45.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		3.4	1.0
Domestic mobile traffic (minutes/subscription/month)		85.6	293.4
Individuals using the Internet (%)	4.0	14.8	47.
Quality			
Population covered by a mobile-cellular network (%)	88	100	9
International Internet bandwidth (bit/s per Internet user)	443	8,162	21,25
Affordability			-
Fixed-telephone sub-basket (\$ a month)		9.6	8.9
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		10.4 51.7	12.4 17.3
Trade			
ICT goods exports (% of total goods exports)	0.5	0.6	18.
ICT goods exports (% of total goods exports)	4.8	3.5	15.
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.6	38.7	27.4
Applications			
Online service index (0-1, 1=highest presence)	0.34	0.32	0.3
Secure Internet servers (per million people)	6.9	22.5	23.



South Asia Low income

	Countr	Country data	
-	2005	2014	group 2014
Economic and social context			
Population (millions)	26	28	622
Urban population (% of total)	15	18	30
GNI per capita, World Bank Atlas method (\$)	310	730	626
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.3	4.5	6.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	49 64	60 75	57 59
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)	Р	Р	
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)	В	No	
Sector efficiency and capacity	0.0		
Telecommunications revenue (% of GDP)	0.9 26.7		
Telecommunications investment (% of revenue)	20.7	••	
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	1.9	3.0	0.9
Mobile-cellular telephone subscriptions (per 100 people)	0.9	82.5	57.2
Fixed-broadband subscriptions (per 100 people)	0.0	0.8	0.2
Households with a computer (%)	1.9	8.2	4.5
Households with Internet access at home (%)	0.7	5.6	4.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			39.8
Individuals using the Internet (%)	0.8	15.4	6.3
Quality Population covered by a mobile-cellular network (%)	10	81	
International Internet bandwidth (bit/s per Internet user)	226	3,109	4,196
Affordability			
Fixed-telephone sub-basket (\$ a month)		2.7	8.7
Mobile-cellular sub-basket (\$ a month)		2.7	11.7
Fixed-broadband sub-basket (\$ a month)		6.3	44.9
Trade			
ICT goods exports (% of total goods exports)		0.1	
ICT goods imports (% of total goods imports)	4.5	3.5	2.7
ICT service exports (% of total service exports)	27.2	42.1	21.5
Applications Online service index (0-1, 1=highest presence)	0.27	0.16	0.11
Secure Internet servers (per million people)	0.5	3.0	1.2
	0.0	3.0	1.2

Netherlands

	Count	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	16	17	1,399
Urban population (% of total)	83	90	81
GNI per capita, World Bank Atlas method (\$)	42,010		38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	1.0		1.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	97	106	99 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)	M P	M M	
Mobile telephone service Internet service	P	M	
	A	IVI R	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
reg. treatment of voir (banned, closed, no framework, allowed)	А		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.0	1.6	2.6
Telecommunications investment (% of revenue)	13.2		16.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	46.6		39.9
Mobile-cellular telephone subscriptions (per 100 people)	97.1	116.4	123.3
Fixed-broadband subscriptions (per 100 people)	25.1	41.0	28.0
Households with a computer (%)	78.0	97.6	80.3
Households with Internet access at home (%)	78.3	95.8	81.0
Usage Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	38.8	95.0	188.0
Individuals using the Internet (%)	81.0		80.6
mativation using the internet (%)	01.0	33.2	00.0
Quality Population covered by a mobile-cellular network (%)	100	100	100
International Internet bandwidth (bit/s per Internet user)	25,338	281,063	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		32.9	23.7
Mobile-cellular sub-basket (\$ a month)		41.5	18.7
Fixed-broadband sub-basket (\$ a month)		35.2	26.9
Trade			
ICT goods exports (% of total goods exports)	16.8		8.2
ICT goods imports (% of total goods imports)	18.7		10.5
ICT service exports (% of total service exports)	35.1	34.3	30.3
Applications Online service index (0-1, 1=highest presence)	0.86	0.93	0.67
Secure Internet servers (per million people)		2,635.1	928.0
Occurs internet servers (per million people)	521.1	2,030.1	320.0

New Caledonia

	Count	ry data	income group
	2005	2014	2014
Economic and social context			
Population (millions)	0.23	0.27	1,399
Urban population (% of total)	64	70	81
GNI per capita, World Bank Atlas method (\$)			38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)			1.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)		97 	99 95
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	M	
Mobile telephone service	М	M	
Internet service	М	M	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity Telecommunications revenue (% of GDP)			2.6
Telecommunications investment (% of revenue)			16.8
Sector performance			
Access	040	04.4	00.0
Fixed-telephone subscriptions (per 100 people)	24.2	34.1	39.9
Mobile-cellular telephone subscriptions (per 100 people)	58.7 4.2	93.6 17.1	123.3 28.0
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	18.2	30.3	80.3
Households with Internet access at home (%)	8.0	24.1	81.0
nouseholds with internet access at nome (%)	6.0	24.1	61.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	60.1	70.0	188.0
Individuals using the Internet (%)	32.4	70.0	80.6
Quality Population covered by a mobile-cellular network (%)	75		100
International Internet bandwidth (bit/s per Internet user)	1,784	20,432	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)			23.7
Mobile-cellular sub-basket (\$ a month)			18.7
Fixed-broadband sub-basket (\$ a month)			26.9
Trade			
ICT goods exports (% of total goods exports)	0.2	0.2	8.2
ICT goods imports (% of total goods imports)	4.6	3.3	10.5
ICT service exports (% of total service exports)	8.6	10.7	30.3
Applications Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	69.0	349.6	928.0
Secone unremer servers (her minion heathe)	09.0	349.0	520.0

New Zealand

		High i	ncome
	Count	ry data	High- income group
	2005	2014	2014
	4	5	1,399
	86	86	81
(\$)	25,490	39,300	38,317
(. annual %)	4.2	1.2	1.1
			99
enrollment (%)	106	105	95
tor	Voc	Voc	
tor Itor	Yes Private	Yes Private	
l comp., monopoly)	Tilvato	Tilvato	
, comp., monopoly,	С	М	
	C	М	
	С	M	
d, allowed)	Α	Α	
no framework, allowed)	Α	В	
	4.3	2.3	2.6
venue)	6.1	30.3	16.8
<u>, </u>			
eople)	41.8	40.6	39.9
per 100 people)	85.4	112.1	123.3
people)	7.8	30.5	28.0
(0/)	67.8	79.8	80.3
: (%)	62.1	79.8	81.0
otion/month)			
ption/month)	29.5	73.6	188.0
	62.7	85.5	80.6
			100

	Count	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	4	5	1,399
Urban population (% of total)	86	86	81
GNI per capita, World Bank Atlas method (\$)	25,490	39,300	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.2	1.2	1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)	106	105	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	M	
Mobile telephone service	С	M	
Internet service	C	M	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.3	2.3	2.6
Telecommunications investment (% of revenue)	6.1	30.3	16.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	41.8	40.6	39.9
Mobile-cellular telephone subscriptions (per 100 people)	85.4	112.1	123.3
Fixed-broadband subscriptions (per 100 people)	7.8	30.5	28.0
Households with a computer (%)	67.8	79.8	80.3
Households with Internet access at home (%)	62.1	79.8	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	29.5	73.6	188.0
Individuals using the Internet (%)	62.7	85.5	80.6
Quality	00	0.7	100
Population covered by a mobile-cellular network (%)	98	97	100
International Internet bandwidth (bit/s per Internet user)	1,764	95,081	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		37.7	23.7
Mobile-cellular sub-basket (\$ a month)		15.6	18.7
Fixed-broadband sub-basket (\$ a month)		61.5	26.9
Trade			
ICT goods exports (% of total goods exports)	1.7	1.0	8.2
ICT goods imports (% of total goods imports)	9.6	7.5	10.5
ICT service exports (% of total service exports)	10.8	14.0	30.3
Applications	0.74	0.04	0.07
Online service index (0-1, 1=highest presence)	0.74	0.84	0.67
Secure Internet servers (per million people)	489.9	1,211.2	928.0

Nicaragua

	NIVAI AYUA
Latin America & Caribbean	Lower middle income

			Lower middle-	
		ry data	_ group	
	2005	2014	2014	
Economic and social context				
Population (millions)	5	6	2,879	
Urban population (% of total)	56	58	39	
GNI per capita, World Bank Atlas method (\$)	1,180	1,870	2,012	
GDP growth, 2000–05 and 2005–14 (avg. annual %)	3.1 78	3.4	5.9 <i>7</i> 3	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)			67	
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	M		
Mobile telephone service	С	С		
Internet service	С	С		
Foreign ownership (not allowed, restricted, allowed)	Α	Α		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	A		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.9		2.3	
Telecommunications investment (% of revenue)	24.0		19.8	
Sector performance Access Fixed-telephone subscriptions (per 100 people)	4.0	5.5	4.0	
Mobile-cellular telephone subscriptions (per 100 people)	20.5	114.6	87.1	
Fixed-broadband subscriptions (per 100 people)	0.2	2.5	2.4	
Households with a computer (%)	3.8	11.1	17.0	
Households with Internet access at home (%)	0.1	11.6	18.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)			8.8	
Domestic mobile traffic (minutes/subscription/month)			147.6	
Individuals using the Internet (%)	2.6	17.6	22.6	
Quality Population covered by a mobile-cellular network (%)	70		94	
International Internet bandwidth (bit/s per Internet user)	43	23,025	10,618	
Affordability				
Fixed-telephone sub-basket (\$ a month)		6.8	5.0	
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		27.5 20.7	7.7 18.6	
Trade				
ICT goods exports (% of total goods exports)	0.1	0.1	6.2	
ICT goods imports (% of total goods imports)	6.1	4.4	8.0	
ICT service exports (% of total service exports)		11.8	51.1	
Applications	0.27	0.00	0.04	
Online service index (0-1, 1=highest presence)	0.37	0.09	0.24	
Secure Internet servers (per million people)	2.0	11.3	5.9	

Niger

Sub-Saharan Africa Low income

	Count	Country data	
-	2005	2014	group 2014
Economic and social context			
Population (millions)	13	19	622
Urban population (% of total)	17	18	30
GNI per capita, World Bank Atlas method (\$)	250	420	626
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.7	5.6	6.1
Adult literacy rate (% ages 15 and older)	29	15	57
Gross primary, secondary, tertiary school enrollment (%)	26	38	59
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)	М	M	
Mobile telephone service	M	M	
Internet service	M R	M R	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	R B	R B	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.2	4.6	
Telecommunications investment (% of revenue)	56.5		
Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	0.2 2.5 0.0 0.1 0.0	0.6 44.4 0.0 2.4 2.2	0.9 57.2 0.2 4.5 4.2
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 0.2	 18,471.9 2.0	 39.8 6.3
Quality Population covered by a mobile-cellular network (%)	15	75	
International Internet bandwidth (bit/s per Internet user)	1,028	3,320	4,196
Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		14.8 11.7	8.7 11.7
Fixed-broadband sub-basket (\$ a month)		60.2	44.9
Trade			
ICT goods exports (% of total goods exports)	0.2	0.4	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	3.2 34.3	2.7 18.3	2.7 21.5
	J4.J	10.3	21.5
Applications Online service index (0-1, 1=highest presence)	0.11	0.13	0.11
Secure Internet servers (per million people)	0.1	0.2	1.2

Nigeria

Sub-Saharan Africa	Lower middle i		income
	Counti	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	140	177	2,879
Urban population (% of total)	39	47	39
GNI per capita, World Bank Atlas method (\$)	660	2,970	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	11.8	6.2	5.9
Adult literacy rate (% ages 15 and older)	55		73
Gross primary, secondary, tertiary school enrollment (%)	56		67
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	M M	
Mobile telephone service Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowe		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.1	1.6	2.3
Telecommunications investment (% of revenue)	0.4	75.5	19.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	0.9	0.1	4.0
Mobile-cellular telephone subscriptions (per 100 people)	13.3	77.8	87.1
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	0.0 4.0	0.0 9.1	2.4 17.0
Households with Internet access at home (%)	2.0	8.5	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	6.2	4.6	8.8
Domestic mobile traffic (minutes/subscription/month)	27.4	80.2	147.6
Individuals using the Internet (%)	3.5	42.7	22.6
Quality			
Population covered by a mobile-cellular network (%)	58	91	94
International Internet bandwidth (bit/s per Internet user)	30	3,150	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		7.3	5.0
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		6.5 40.6	7.7 18.6
Trade			
ICT goods exports (% of total goods exports)	0.0	0.0	6.2
ICT goods imports (% of total goods imports)	3.9	3.6	8.0
ICT service exports (% of total service exports)	1.6	4.4	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.31	0.31	0.24
Secure Internet servers (per million people)	0.2	2.3	5.9

Northern Mariana Islands

	Countr	Country data		Hig inco ountry data	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	0.06	0.05	1,399		
Urban population (% of total)	90	89	81		
GNI per capita, World Bank Atlas method (\$)			38,317		
GDP growth, 2000-05 and 2005-14 (avg. annual %)			1.1		
Adult literacy rate (% ages 15 and older)			99		
Gross primary, secondary, tertiary school enrollment (%)			95		
Sector structure					
Separate telecommunications/ICT regulator	No	No			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	M	М			
Mobile telephone service	M	М			
Internet service	М	M			
Foreign ownership (not allowed, restricted, allowed)	No	No			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)			2.6		
Telecommunications investment (% of revenue)			16.8		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	36.2	41.1	39.9		
Mobile-cellular telephone subscriptions (per 100 people)	31.0		123.3 28.0		
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)			28.0 80.3		
· · · · ·	30.9		81.0		
Households with Internet access at home (%)	30.9		01.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)			188.0		
Individuals using the Internet (%)	••	••	80.6		
Quality					
Population covered by a mobile-cellular network (%)			100		
International Internet bandwidth (bit/s per Internet user)			131,821		
Affordability					
Fixed-telephone sub-basket (\$ a month)			23.7		
Mobile-cellular sub-basket (\$ a month)			18.7		
Fixed-broadband sub-basket (\$ a month)			26.9		
Trade					
ICT goods exports (% of total goods exports)			8.2		
ICT goods imports (% of total goods imports)			10.5		
ICT service exports (% of total service exports)			30.3		
Applications					
Online service index (0-1, 1=highest presence)			0.67		
Offiling Service index (0 1, 1 highest presence)					

Norway

	Count	ry data	High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	5	5	1,399
Urban population (% of total)	77	80	81
GNI per capita, World Bank Atlas method (\$)		103,050	38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	2.1	1.0	1.1 99
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	99	99	99 95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	М	С	
Mobile telephone service	P	C	
Internet service	C A	C A	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	1.5	1.0	2.6
Telecommunications investment (% of revenue)		26.9	16.8
Sector performance			
Access	45.6	22.7	39.9
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	102.8		123.3
Fixed-broadband subscriptions (per 100 people)	21.4		28.0
Households with a computer (%)	74.0	95.4	80.3
Households with Internet access at home (%)	64.0	93.1	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	119.3		188.0
Individuals using the Internet (%)	82.0	96.3	80.6
Quality		100	100
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	11,346	203,935	
Affordability			
Fixed-telephone sub-basket (\$ a month)		27.9	23.7
Mobile-cellular sub-basket (\$ a month)		24.9	18.7
Fixed-broadband sub-basket (\$ a month)		50.9	26.9
Trade			
ICT goods exports (% of total goods exports)	1.2	0.8	8.2
ICT goods imports (% of total goods imports)	8.8		10.5
ICT service exports (% of total service exports)	24.4	33.7	30.3
Applications Online service index (0-1, 1=highest presence)	0.89	0.76	0.67
Secure Internet servers (per million people)	308.9		928.0
Secure internet servers (per million people)	300.9	1,342.0	920.0

Oman

	Count	ry data	High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	3	4	1,399
Urban population (% of total)	72	77	81
GNI per capita, World Bank Atlas method (\$)	10,640	16,870	38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	0.3	4.8	1.1 99
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	81 68	92 77	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)	M P	C P	
Mobile telephone service	M	C	
Internet service Foreign ownership (not allowed, restricted, allowed)	IVI R	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.0	2.4	2.6
Telecommunications investment (% of revenue)	102.5	27.2	16.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	10.5	9.6	39.9
Mobile-cellular telephone subscriptions (per 100 people)	52.9	157.8	123.3
Fixed-broadband subscriptions (per 100 people)	0.5	4.5	28.0
Households with a computer (%)	37.2	84.0	80.3
Households with Internet access at home (%)	15.5	86.2	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	18.1	17.3	
Domestic mobile traffic (minutes/subscription/month)	99.9	99.1	188.0
Individuals using the Internet (%)	6.7	70.2	80.6
Quality	00	00	100
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	92 2,960	98 33,724	100 131,821
Affordobility			
Affordability Fixed-telephone sub-basket (\$ a month)		10.2	23.7
Mobile-cellular sub-basket (\$ a month)		9.1	18.7
Fixed-broadband sub-basket (\$ a month)		26.0	26.9
Trade			
ICT goods exports (% of total goods exports)	0.2	0.1	8.2
ICT goods imports (% of total goods imports)	4.4	2.4	10.5
ICT service exports (% of total service exports)	21.9	15.2	30.3
Applications		6 -	
Online service index (0-1, 1=highest presence)	0.47	0.73	0.67
Secure Internet servers (per million people)	4.0	79.3	928.0

Pakistan

South Asia I	Lower middle in		
	Counti	y data	Lower middle- income group
	2005	2014	-
Economic and social context			
Population (millions)	153	185	2,879
Urban population (% of total)	35	38	39
GNI per capita, World Bank Atlas method (\$)	740	1,410	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.0	3.2	5.9
Adult literacy rate (% ages 15 and older)	50	57	73
Gross primary, secondary, tertiary school enrollment (%)	39	46	67
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	С	С	
Mobile telephone service	Р	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed	l) No	С	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.2	1.9	2.3
Telecommunications investment (% of revenue)	61.0	0.1	19.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	3.3	2.6	4.0
Mobile-cellular telephone subscriptions (per 100 people)	8.1	73.3	87.1
Fixed-broadband subscriptions (per 100 people)	0.0	1.1	2.4
Households with a computer (%)	8.1	15.9	17.0
Households with Internet access at home (%)		13.2	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	4.0	9.2	8.8
Domestic mobile traffic (minutes/subscription/month)	40.9	193.8	
Individuals using the Internet (%)	6.3	13.8	22.6
Quality			
Population covered by a mobile-cellular network (%)	36	92	94
International Internet bandwidth (bit/s per Internet user)	72	5,684	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		4.9	5.0
Mobile-cellular sub-basket (\$ a month)		3.6	7.7
Fixed-broadband sub-basket (\$ a month)		12.3	18.6
Trade			
ICT goods exports (% of total goods exports)	0.5	0.2	6.2
ICT goods imports (% of total goods imports)	8.7	3.8	8.0
ICT service exports (% of total service exports)	17.9	28.4	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.32	0.32	0.24
Secure Internet servers (per million people)	0.3	1.8	5.9

Palau

East Asia & Pacific	Upper n	pper middle i	
	County	ry data	Upper middle- income
	2005	2014	group 2014
Economic and social contact	2003	2017	2014
Economic and social context Population (millions)	0.02	0.02	2,361
Urban population (% of total)	78	86	62
GNI per capita, World Bank Atlas method (\$)	9,410	11,110	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.0	-0.1	6.0
Adult literacy rate (% ages 15 and older)		100	94
Gross primary, secondary, tertiary school enrollment (%)		98	80
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	M	
Mobile telephone service	M	M	
Internet service	M No	M No	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowe		В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)		4.6	2
Telecommunications investment (% of revenue)		8.8	19.
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	40.1	33.9	17.
Mobile-cellular telephone subscriptions (per 100 people)	30.4	90.6	101.
Fixed-broadband subscriptions (per 100 people)	0.5	9.4	11.
Households with a computer (%) Households with Internet access at home (%)	18.5		46. 45.
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	50.7	21.1	1.
Domestic mobile traffic (minutes/subscription/month)			293.
Individuals using the Internet (%)	27.0		47.
Quality			
Population covered by a mobile-cellular network (%)	30	98	9:
International Internet bandwidth (bit/s per Internet user)	1,123		21,25
Affordability			0
Fixed-telephone sub-basket (\$ a month)			8.: 12
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)			17.
Trade			
ICT goods exports (% of total goods exports)		1.0	18.
ICT goods imports (% of total goods imports)	2.9	2.5	15.
ICT service exports (% of total service exports)			27.
Applications			
Online service index (0-1, 1=highest presence)	0.00	0.17	0.3
Secure Internet servers (per million people)	50.5	142.2	23.

Panama

Latin America & Caribbean U	lpper n	income	
	Count	ry data	Upper middle- income
	2005	2014	group 2014
Economic and social context			
Population (millions)	3	4	2,361
Urban population (% of total)	64	66	62
GNI per capita, World Bank Atlas method (\$)	4,530	11,130	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.4	8.3	6.0
Adult literacy rate (% ages 15 and older)	92	94	94
Gross primary, secondary, tertiary school enrollment (%)	76	79	80
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	M	С	
Internet service	M	С	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	Α	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.7	1.7	2.4
Telecommunications investment (% of revenue)	28.4	32.2	19.7
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	14.0	15.0	17.6
Mobile-cellular telephone subscriptions (per 100 people)	52.0	158.1	101.4
Fixed-broadband subscriptions (per 100 people)	0.5	7.9	11.7
Households with a computer (%)	14.6	38.2	46.0
Households with Internet access at home (%)	8.1	41.6	45.3
Usage		7.0	4.0
Int'l. voice traffic, total (minutes/subscription/month)		7.9	1.6
Domestic mobile traffic (minutes/subscription/month)	61.3	75.8	293.4
Individuals using the Internet (%)	11.5	44.9	47.7
Quality	75	96	99
Population covered by a mobile-cellular network (%)			
International Internet bandwidth (bit/s per Internet user)	2,396	72,678	21,253
Affordability Fixed-telephone sub-basket (\$ a month)		9.1	8.9
· · · · · · · · · · · · · · · · · · ·	••	12.6	0.5 12.4
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		10.7	17.3
Trade			
ICT goods exports (% of total goods exports)	0.1	7.9	18.0
ICT goods imports (% of total goods imports)	9.1	5.3	15.1
ICT service exports (% of total service exports)	10.6	8.1	27.4
Applications			
Online service index (0-1, 1=highest presence)	0.47	0.37	0.37
	54.8	116.6	23.3

Papua New Guinea

	East Asia & Pacific	Lower m	ower middle i		
Provide the Competition (competition, partial comp., monopoly)		Count	y data	Lower middle- income group	
Population (millions)		2005	2014	2014	
Urban population (% of total)	Economic and social context				
GNI per capita, World Bank Atlas method (\$) 700 2,030 2 GDP growth, 2000-05 and 2005-14 (avg. annual %) 2.0 7.2 Adult literacy rate (% ages 15 and older) 57 63 Gross primary, secondary, 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) M M M Mobile telephone service M M M Foreign ownership (not allowed, restricted, allowed) No No Reg. treatment of VoIP (banned, closed, no framework, allowed) A B Sector efficiency and capacity Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 1.0 1.9 Mobile-cellular telephone subscriptions (per 100 people) 1.2 44.9 Fixed-broadband subscriptions (per 100 people) 1.2 44.9 Households with a computer (%) 2.0 3.6 Households with internet access at home (%) 1.1 3.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Quality Population covered by a mobile-cellular network (%)				2,879	
GDP growth, 2000-05 and 2005-14 (avg. annual %) 2.0 7.2 Adult literacy rate (% ages 15 and older) 57 63 Gross primary, secondary, tertiary school enrollment (%)				39	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Sector of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Mobile telephone subcommunications for famework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Robile telephone subscription (banned, closed, no framework, allowed) Robile telephone subscriptio			,	2,012 5.9	
Gross primary, secondary, tertiary school enrollment (%)				5.9 73	
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 Mobile telephone subscriptions (per 100 people) Telecommunications revenue (% of GDP) Telecommunications revenue (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscription/month) Mobile-cellular telephone subscription/month) Mobile-cellular telephone subscription/month) Mobile-cellular telephone subscription/month) Mobile-cellular subscriptions Mobile-cellular sub-basket (\$ a month) Mobile-cellular				67	
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, all	Sector structure				
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Mode Mode Mode Mode Mode Mode Mode Mode					
International gateway(s) Mobile telephone service Internet service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) I.0 1.9 Mobile-cellular telephone subscriptions (per 100 people) I.2 44.9 Fixed-broadband subscriptions (per 100 people) I.3 3.6 Households with a computer (%) Households with Internet access at home (%) I.1 3.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) O O O O		Public	Public		
Mobile telephone service Internet service Internet service Mode Mode Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. Treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (M	M		
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Fixed-broadband (minutes/subscription/month) Fixed-broadband sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month	• • • • • • • • • • • • • • • • • • • •				
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) Fixed-broadband subscriptions (per 100 people) Fixed-telephone subscription/month) Fixed-telephone subscription/month) Fixed-telephone subscription/month) Fixed-telephone sub-basket (\$ a month) Fixed-telephone sub-basket (\$ a m	•				
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) 1.2 44.9 Fixed-broadband subscriptions (per 100 people) 1.2 0.2 Households with a computer (%) Households with Internet access at home (%) 1.1 3.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) O.0 0.0					
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	-	ed) A	В		
Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 1.0 1.9 Mobile-cellular telephone subscriptions (per 100 people) 1.2 44.9 Fixed-broadband subscriptions (per 100 people) 1.2 44.9 Fixed-broadband subscriptions (per 100 people) 0.2 Households with a computer (%) 2.0 3.6 Households with Internet access at home (%) 1.1 3.1 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 1 Individuals using the Internet (%) 1.7 9.4 Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) 57 7,130 10 Affordability Fixed-telephone sub-basket (\$ a month) 13.1 Mobile-cellular sub-basket (\$ a month) 26.3 Fixed-broadband sub-basket (\$ a month) 445.5 Trade ICT goods exports (% of total goods exports) 0.0 0.0				0.0	
Access Fixed-telephone subscriptions (per 100 people) 1.0 1.9 Mobile-cellular telephone subscriptions (per 100 people) 1.2 44.9 Fixed-broadband subscriptions (per 100 people) 1.2 44.9 Households with a computer (%) 2.0 3.6 Households with laternet access at home (%) 1.1 3.1 Usage Int'l. voice traffic, total (minutes/subscription/month) 1.1 Individuals using the Internet (%) 1.7 9.4 Quality Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) 57 7,130 10 Affordability Fixed-telephone sub-basket (\$ a month) 26.3 Fixed-broadband sub-basket (\$ a month) 445.5 Trade ICT goods exports (% of total goods exports) 0.0 0.0				2.3 19.8	
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffi	Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	1.2	44.9 0.2	4.0 87.1 2.4 17.0	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports)	Households with Internet access at home (%)	1.1	3.1	18.3	
Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) 1.7 9.4 1.8 9.4 1.7 9.4 1.8 1.7 9.4 1.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2	Int'l. voice traffic, total (minutes/subscription/month)			8.8 147.6	
Population covered by a mobile-cellular network (%)		1.7		22.6	
Population covered by a mobile-cellular network (%)	•				
International Internet bandwidth (bit/s per Internet user) 57 7,130 10 Affordability Fixed-telephone sub-basket (\$ a month) . 26.3 Mobile-cellular sub-basket (\$ a month) . 26.3 Fixed-broadband sub-basket (\$ a month) . 445.5 Trade ICT goods exports (% of total goods exports) 0.0 0.0				94	
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Example 1 Trade ICT goods exports (% of total goods exports) 13.1 445.5 445.5	* * * * * * * * * * * * * * * * * * * *	57	7,130		
Mobile-cellular sub-basket (\$ a month) 26.3 Fixed-broadband sub-basket (\$ a month) 445.5 Trade ICT goods exports (% of total goods exports) 0.0 0.0					
Fixed-broadband sub-basket (\$ a month) 445.5 Trade ICT goods exports (% of total goods exports) 0.0 0.0				5.0	
ICT goods exports (% of total goods exports) 0.0 0.0				7.7 18.6	
ICT goods exports (% of total goods exports) 0.0 0.0	Trade				
ICT goods imports (% of total goods imports) 3.2.2.2	ICT goods exports (% of total goods exports)	0.0	0.0	6.2	
	ICT goods imports (% of total goods imports)	3.2	2.2	8.0	
ICT service exports (% of total service exports) 72.8 64.2	ICT service exports (% of total service exports)	72.8	64.2	51.1	
Applications Online service index (0-1, 1=highest presence) 0.21 0.01		N 21	0.01	0.24	
Secure Internet servers (per million people) 0.21 0.01 10.7				5.9	

Paraguay

Latin America & Caribbean	Upper middle income

			Upper middle- income
	Count 2005	ry data 2014	group 2014
Economic and social context			
Population (millions)	6	7	2,361
Urban population (% of total)	57	59	62
GNI per capita, World Bank Atlas method (\$)	1,230	4,380	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.2	4.9	6.0
Adult literacy rate (% ages 15 and older)	95	95	94
Gross primary, secondary, tertiary school enrollment (%)	72	69	80
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	M	
Mobile telephone service	М	М	
Internet service	M R	M	
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)	3.5		2.4
Telecommunications investment (% of revenue)			19.7
Sector performance Access Fixed-telephone subscriptions (per 100 people)	5.4	5.4	17.6
	32.0	105.6	101.4
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)	0.1	2.3	101.4
Households with a computer (%)	8.7	31.9	46.0
Households with Internet access at home (%)	1.7	24.6	45.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		7.2	1.6
Domestic mobile traffic (minutes/subscription/month)		97.9	293.4
Individuals using the Internet (%)	7.9	43.0	47.7
Quality			
Population covered by a mobile-cellular network (%)		100	99
International Internet bandwidth (bit/s per Internet user)	737	12,624	21,253
Affordability			
Fixed-telephone sub-basket (\$ a month)		8.6	8.9
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		12.2 21.2	12.4 17.3
Trade			
ICT goods exports (% of total goods exports)	0.2	0.0	18.0
ICT goods imports (% of total goods imports)	17.4	17.8	15.1
ICT service exports (% of total service exports)	8.7	1.6	27.4
Applications			
Online service index (0-1, 1=highest presence)	0.47	0.23	0.37
Secure Internet servers (per million people)	1.4	24.1	23.3

Peru

Latin America & Caribbean	Upper n	per middle i		
	Countr	w data	Upper middle- income	
	2005	2014	group 2014	
Economic and social context				
Population (millions)	28	31	2,361	
Urban population (% of total)	75	78	62	
GNI per capita, World Bank Atlas method (\$)	2,540	6,370	7,873	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.4	6.2	6.0	
Adult literacy rate (% ages 15 and older)	88	94	94	
Gross primary, secondary, tertiary school enrollment (%)	81	82	80	
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)	M	М		
Mobile telephone service	C	С		
Internet service	C	C		
Foreign ownership (not allowed, restricted, allowed)	Α	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) A	A		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.9	3.2	2.4	
Telecommunications investment (% of revenue)	17.9	18.6	19.	
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 (%)	8.7 20.1 1.3 8.2 3.5	9.9 102.9 5.7 32.3 23.5	17.0 101.4 11.1 46.0 45.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	13.7		1.0	
Domestic mobile traffic (minutes/subscription/month)	40.5		293.	
Individuals using the Internet (%)	17.1ª	40.2	47.	
Quality Population covered by a mobile-cellular network (%)	92	100	9:	
International Internet bandwidth (bit/s per Internet user)	2,109	36,381	21,25	
Affordability				
Fixed-telephone sub-basket (\$ a month)		12.6	8.	
Mobile-cellular sub-basket (\$ a month)		12.9	12.	
Fixed-broadband sub-basket (\$ a month)		22.1	17	
Trade				
ICT goods exports (% of total goods exports)	0.2	0.1	18.	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	8.4 13.9	7.8 12.5	15. 27.	
			=	
Applications Online service index (0-1, 1=highest presence)	0.53	0.63	0.3	
Secure Internet servers (per million people)	5.3	28.1	23.	

Philippines

East Asia & Pacific	Lower n	income	
			Lower middle-
	Count	ry data	income group
	2005	2014	2014
Economic and social context			
Population (millions)	86	99	2,879
Urban population (% of total)	47	44	39
GNI per capita, World Bank Atlas method (\$)	1,520	3,470	2,012
GDP growth, 2000–05 and 2005–14 (avg. annual %)	4.7	5.2	5.9
Adult literacy rate (% ages 15 and older)	93		73
Gross primary, secondary, tertiary school enrollment (%)	78	81	67
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)	M	M	
Mobile telephone service	M	M	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed	i) A	Α	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.2	2.1	2.3
Telecommunications investment (% of revenue)	24.4	25.8	19.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	3.9	3.1	4.0
Mobile-cellular telephone subscriptions (per 100 people)	40.5	111.2	87.1
Fixed-broadband subscriptions (per 100 people)	0.1	23.2	2.4
Households with a computer (%)	6.6	20.5	17.0
Households with Internet access at home (%)	4.3	26.9	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			8.8
Domestic mobile traffic (minutes/subscription/month)			147.6
Individuals using the Internet (%)	5.4	39.7	22.6
Quality			
Population covered by a mobile-cellular network (%)	99	99	94
International Internet bandwidth (bit/s per Internet user)	694	27,688	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		16.5	5.0
Mobile-cellular sub-basket (\$ a month)		10.3	7.7
Fixed-broadband sub-basket (\$ a month)		23.5	18.6
Trada			
Trade ICT goods exports (% of total goods exports)	47.7	31.6	6.2
ICT goods imports (% of total goods imports)	45.8	23.2	8.0
ICT service exports (% of total service exports)	59.8	71.5	51.1
TOT SOLVING EXPORTS (/// OI LOCAL SELVING EXPORTS)	J3.0	11.3	51.1
Applications		c •-	
Online service index (0-1, 1=highest presence)	0.50	0.48	0.24
Secure Internet servers (per million people)	2.4	10.9	5.9

Poland

Country Final Properties				High-
Population (millions)		Count	ry data	income group
Population (millions) 38 38 3,399 Urban population (% of total) 61 61 61 61 SIN per capita, World Bank Atlas method (\$) 7,330 13,730 33,731 SIN per capita, World Bank Atlas method (\$) 7,330 13,730 38,317 GDP growth, 2000-05 and 2005-14 (avg. annual %) 3.1 3.7 1.1 Adult literacy rate (% ages 15 and older) 100 100 99 Gross primary, secondary, tertiary school enrollment (%) 87 98 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 Foreign ownership (not allowed, restricted, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.8 2.4 2.6 Telecommunications investment (% of revenue) 16.1 16.9 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband subscriptions (per 100 people) 2.5 23.8 28.0 Households with a computer (%) 40.0 77.7 80.3 Households with Internet access at home (%) 30.4 74.8 81.0 Usage		2005	2014	2014
Urban population (% of total)	Economic and social context			
GNI per capita, World Bank Atlas method (\$) 7,330 13,730 38,317 GDP growth, 2000-05 and 2005-14 (avg. annual %) 3.1 3.7 1.1 Adult literacy rate (% ages 15 and older) 100 100 99 Gross primary, secondary, tertiary school enrollment (%) 87 98 95 Sector structure Sector structure Separate telecommunications/ICT regulator Yes Yes Status of main fixed-line telephone operator Wixed Private Level of competition (competition, partial comp., monopoly) International gateway(s) C C C C Internet service C C C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) A A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A S Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.8 2.4 2.6 Telecommunications revenue (% of GDP) 3.8 2.4 2.6 Telecommunications investment (% of revenue) 16.1 16.9 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband subscriptions (per 100 people) 76.3 156.4 123.3 Sector performance Access This sector performance Access Ac				
GDP growth, 2000-05 and 2005-14 (avg. annual %) 3.1 3.7 1.1				
Adult literacy rate (% ages 15 and older) 100 100 99 100 100 99 100 100 99 100 100 99 95 95 95 95 95 95		,	,	
Gross primary, secondary, tertiary school enrollment (%) 87 98 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 C C Mobile telephone service C C C C Internet service C C C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) A A A Reg. treatment of VoIP (banned, closed, no framework, allowed) A A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.8 2.4 2.6 Telecommunications investment (% of revenue) 16.1 16.9 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 31.0 13.2 39.9 Mobile-cellular telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband sub-basket (\$ a month) 7. 10.7 188.0 10.0 10.0 10.0 10.0 10.0 10.0 10.				
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 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) 3.8 2.4 2.6 Telecommunications investment (% of revenue) 16.1 16.9 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 31.0 13.2 39.9 Mobile-cellular telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-telephone subscriptions (per 100 people) 25.23				
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) C C Mobile telephone service C C C Internet service C C C C Foreign ownership (not allowed, restricted, allowed) A A A Reg. treatment of Voll? (banned, closed, no framework, allowed) A A A A A A A A A	Sector structure			
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service C C C Internet service C C C Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, allowed) Reg. treatment of VoIP (banned, cl	Separate telecommunications/ICT regulator	Yes	Yes	
International gateway(s)	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) A A Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.8 2.4 2.6 Telecommunications investment (% of revenue) 16.1 16.9 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband subscriptions (per 100 people) 2.5 23.8 28.0 Households with a computer (%) 40.0 77.7 80.3 Households with Internet access at home (%) 30.4 74.8 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 46.7 110.7 188.0 Individuals using the Internet (%) 38.8 66.6 80.6 Quality Population covered by a mobile-cellular network (%)	Level of competition (competition, partial comp., monopoly)			
Internet service	International gateway(s)	С	С	
Foreign ownership (not allowed, restricted, allowed)	Mobile telephone service	С	С	
Reg. treatment of VoIP (banned, closed, no framework, allowed) A	Internet service			
Sector efficiency and capacity Telecommunications revenue (% of GDP) 3.8 2.4 2.6 Telecommunications investment (% of revenue) 16.1 16.9 16.8 16.8 Sector performance	Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Telecommunications revenue (% of GDP) 3.8 2.4 2.6 Telecommunications investment (% of revenue) 16.1 16.9 16.8 Sector performance Access Fixed-telephone subscriptions (per 100 people) 31.0 13.2 39.9 Mobile-cellular telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband subscriptions (per 100 people) 2.5 23.8 28.0 Households with a computer (%) 40.0 77.7 80.3 Households with Internet access at home (%) 30.4 74.8 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month)	Reg. treatment of VoIP (banned, closed, no framework, allowed)	Α	А	
Telecommunications investment (% of revenue) 16.1 16.9 16.8		2.0	0.4	0.0
Sector performance Access Sixed-broadband subscriptions (per 100 people) 31.0 13.2 39.9 Mobile-cellular telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband subscriptions (per 100 people) 2.5 23.8 28.0 Households with a computer (%) 40.0 77.7 80.3 Households with a computer (%) 40.0 77.7 80.3 Households with Internet access at home (%) 30.4 74.8 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month)				
Access Fixed-telephone subscriptions (per 100 people) 31.0 13.2 39.9 Mobile-cellular telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband subscriptions (per 100 people) 2.5 23.8 28.0 Households with a computer (%) 40.0 77.7 80.3 Households with Internet access at home (%) 30.4 74.8 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month)	refection munications investment (% of revenue)	10.1	10.9	10.8
Fixed-telephone subscriptions (per 100 people) 31.0 13.2 39.9 Mobile-cellular telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband subscriptions (per 100 people) 2.5 23.8 28.0 Households with a computer (%) 40.0 77.7 80.3 Households with Internet access at home (%) 30.4 74.8 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month)	•			
Mobile-cellular telephone subscriptions (per 100 people) 76.3 156.4 123.3 Fixed-broadband subscriptions (per 100 people) 2.5 23.8 28.0 Households with a computer (%) 40.0 77.7 80.3 Households with Internet access at home (%) 30.4 74.8 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 46.7 110.7 188.0 Individuals using the Internet (%) 38.8 66.6 80.6 Quality Population covered by a mobile-cellular network (%) 99 100 100 International Internet bandwidth (bit/s per Internet user) 1,442 90,356 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 18.7 23.7 Mobile-cellular sub-basket (\$ a month) 10.9 18.7 Fixed-broadband sub-basket (\$ a month) 12.3 26.9 Trade ICT goods imports (% of total goods exports) 4.0 6.8 8.		31.0	13.2	39.9
Fixed-broadband subscriptions (per 100 people) 2.5 23.8 28.0 Households with a computer (%) 40.0 77.7 80.3 Households with Internet access at home (%) 30.4 74.8 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) 46.7 110.7 188.0 Individuals using the Internet (%) 38.8 66.6 80.6 Quality Population covered by a mobile-cellular network (%) 99 100 100 International Internet bandwidth (bit/s per Internet user) 1,442 90,356 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 18.7 23.7 Mobile-cellular sub-basket (\$ a month) 10.9 18.7 Trade ICT goods exports (% of total goods exports) 4.0 6.8 8.2 ICT goods imports (% of total goods imports) 7.9 8.6 10.5 ICT goods imports (% of total service exports) 1		76.3	156.4	123.3
Households with a computer (%)		2.5	23.8	28.0
Usage Int'l. voice traffic, total (minutes/subscription/month)		40.0	77.7	80.3
Int'l. voice traffic, total (minutes/subscription/month)	Households with Internet access at home (%)	30.4	74.8	81.0
Domestic mobile traffic (minutes/subscription/month) 46.7 110.7 188.0 Individuals using the Internet (%) 38.8 66.6 80.6 Quality Population covered by a mobile-cellular network (%) 99 100 100 International Internet bandwidth (bit/s per Internet user) 1,442 90,356 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 18.7 23.7 Mobile-cellular sub-basket (\$ a month) 10.9 18.7 Fixed-broadband sub-basket (\$ a month) 12.3 26.9 Trade ICT goods exports (% of total goods exports) 4.0 6.8 8.2 ICT goods imports (% of total goods imports) 7.9 8.6 10.5 ICT service exports (% of total service exports) 19.6 29.5 30.3 Applications Online service index (0-1, 1=highest presence) 0.61 0.54 0.67	Usage			
Individuals using the Internet (%) 38.8 66.6 80.6				
Quality Population covered by a mobile-cellular network (%) 99 100 100 International Internet bandwidth (bit/s per Internet user) 1,442 90,356 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 18.7 23.7 Mobile-cellular sub-basket (\$ a month) 10.9 18.7 Fixed-broadband sub-basket (\$ a month) 12.3 26.9 Trade ICT goods exports (% of total goods exports) 4.0 6.8 8.2 ICT goods imports (% of total goods imports) 7.9 8.6 10.5 ICT service exports (% of total service exports) 19.6 29.5 30.3 Applications Online service index (0-1, 1=highest presence) 0.61 0.54 0.67				
Population covered by a mobile-cellular network (%) 99 100 100 International Internet bandwidth (bit/s per Internet user) 1,442 90,356 131,821 Affordability Fixed-telephone sub-basket (\$ a month) 18.7 23.7 Mobile-cellular sub-basket (\$ a month) 10.9 18.7 Fixed-broadband sub-basket (\$ a month) 12.3 26.9 Trade ICT goods exports (% of total goods exports) 4.0 6.8 8.2 ICT goods imports (% of total goods imports) 7.9 8.6 10.5 ICT service exports (% of total service exports) 19.6 29.5 30.3 Applications Online service index (0-1, 1=highest presence) 0.61 0.54 0.67	Individuals using the Internet (%)	38.8	66.6	80.6
International Internet bandwidth (bit/s per Internet user)	•			
Affordability 18.7 23.7 Fixed-telephone sub-basket (\$ a month) 10.9 18.7 Mobile-cellular sub-basket (\$ a month) 10.9 18.7 Fixed-broadband sub-basket (\$ a month) 12.3 26.9 Trade ICT goods exports (% of total goods exports) 4.0 6.8 8.2 ICT goods imports (% of total goods imports) 7.9 8.6 10.5 ICT service exports (% of total service exports) 19.6 29.5 30.3 Applications Online service index (0-1, 1=highest presence) 0.61 0.54 0.67				
Fixed-telephone sub-basket (\$ a month) 18.7 23.7 Mobile-cellular sub-basket (\$ a month) 10.9 18.7 Fixed-broadband sub-basket (\$ a month) 12.3 26.9 Trade ICT goods exports (% of total goods exports) 4.0 6.8 8.2 ICT goods imports (% of total goods imports) 7.9 8.6 10.5 ICT service exports (% of total service exports) 19.6 29.5 30.3 Applications Online service index (0-1, 1=highest presence) 0.61 0.54 0.67	International Internet bandwidth (bit/s per Internet user)	1,442	90,356	131,821
Mobile-cellular sub-basket (\$ a month) 10.9 18.7 Fixed-broadband sub-basket (\$ a month) 12.3 26.9 Trade ICT goods exports (% of total goods exports) 4.0 6.8 8.2 ICT goods imports (% of total goods imports) 7.9 8.6 10.5 ICT service exports (% of total service exports) 19.6 29.5 30.3 Applications Online service index (0-1, 1=highest presence) 0.61 0.54 0.67			40.7	00.7
Trade 4.0 6.8 8.2 ICT goods exports (% of total goods exports) 7.9 8.6 10.5 ICT service exports (% of total service exports) 19.6 29.5 30.3 Applications 0.61 0.54 0.67				
Trade 4.0 6.8 8.2 ICT goods exports (% of total goods exports) 7.9 8.6 10.5 ICT service exports (% of total service exports) 19.6 29.5 30.3 Applications Online service index (0-1, 1=highest presence) 0.61 0.54 0.67	,			
ICT goods exports (% of total goods exports) 4.0 6.8 8.2 ICT goods imports (% of total goods imports) 7.9 8.6 10.5 ICT service exports (% of total service exports) 19.6 29.5 30.3 **Applications** Online service index (0-1, 1=highest presence) 0.61 0.54 0.67	Fixed-broadband sub-basket (\$ a month)		12.3	26.9
ICT goods imports (% of total goods imports) 17.9 18.6 10.5 19.6 29.5 30.3 Applications Online service index (0-1, 1=highest presence) 0.61 0.54 0.67		4 0	6.8	82
ICT service exports (% of total service exports) 19.6 29.5 30.3 Applications Online service index (0-1, 1=highest presence) 0.61 0.54 0.67				
Online service index (0-1, 1=highest presence) 0.61 0.54 0.67				
Online service index (0-1, 1=highest presence) 0.61 0.54 0.67	Applications			
		0.61	0.54	0.67
		22.0	429.7	928.0

Portugal

	Country data		High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	11		1,399
Urban population (% of total)	58		81
GNI per capita, World Bank Atlas method (\$)	18,550 0.7		38,317 1.1
GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older)	0.7		99
Gross primary, secondary, tertiary school enrollment (%)	89		95
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	0	0	
International gateway(s)	C P	C C	
Mobile telephone service Internet service	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)	4.6	2.6	2.6
Telecommunications investment (% of revenue)	9.9	16.6	16.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	40.3	43.2	39.9
Mobile-cellular telephone subscriptions (per 100 people)	108.9		123.3
Fixed-broadband subscriptions (per 100 people)	11.1		28.0
Households with a computer (%)	42.5	69.4	80.3
Households with Internet access at home (%)	31.5	64.9	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	15.7		
Domestic mobile traffic (minutes/subscription/month)	80.6		188.0
Individuals using the Internet (%)	35.0	64.6	80.6
Quality	99	99	100
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)		218,876	
Affordability			
Fixed-telephone sub-basket (\$ a month)		23.7	23.7
Mobile-cellular sub-basket (\$ a month)			18.7
Fixed-broadband sub-basket (\$ a month)		27.9	26.9
Trade			
ICT goods exports (% of total goods exports)	7.8		8.2
ICT goods imports (% of total goods imports)	8.4		10.5
ICT service exports (% of total service exports)	15.6	20.5	30.3
Applications	0.65	0.64	0.67
Online service index (0-1, 1=highest presence)	0.65 57.7	0.64 262.9	0.67 928.0
Secure Internet servers (per million people)	51.1	202.9	928.0

Puerto Rico

		High i	ncome	
	Count	ry data	High- income	
	2005	2014	2014	
Economic and social context				
Population (millions)	4	4	1,39	
Urban population (% of total)	94		8	
GNI per capita, World Bank Atlas method (\$)	14,750	19,310	38,31	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.6	-2.2	1.	
Adult literacy rate (% ages 15 and older)	91	92	9	
Gross primary, secondary, tertiary school enrollment (%)		85	9	
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	M		
Mobile telephone service	M	M		
Internet service	M	M		
Foreign ownership (not allowed, restricted, allowed)	No	No		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)		2.0	2.	
Telecommunications investment (% of revenue)			16.	
Sector performance				
Access				
Fixed-telephone subscriptions (per 100 people)	27.6	22.4	39.	
Mobile-cellular telephone subscriptions (per 100 people)	53.0	87.1	123.	
Fixed-broadband subscriptions (per 100 people)	3.1	16.6	28.	
Households with a computer (%)		60.0	80.	
Households with Internet access at home (%)		49.0	81.	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)				
Domestic mobile traffic (minutes/subscription/month)			188.	
Individuals using the Internet (%)	23.4	78.8	80.	
Quality				
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	62 2,272	 136,866	10 131,82	
		-	•	
Affordability			23.	
Fixed-telephone sub-basket (\$ a month)				
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)			18. 26.	
Trade				
Irade ICT goods exports (% of total goods exports)			8.	
ICT goods exports (% of total goods exports)			10.	
ICT convice experts (% of total convice experts)			20.	

Applications

ICT service exports (% of total service exports)

Online service index (0-1, 1=highest presence)

Secure Internet servers (per million people)

30.3

0.67

928.0

31.9 127.9

Qatar

	Count	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	0.84	2	1,399
Urban population (% of total)	97	99	81
GNI per capita, World Bank Atlas method (\$)	39,560	94,410	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	8.3	13.2	1.1
Adult literacy rate (% ages 15 and older)	89	98	99
Gross primary, secondary, tertiary school enrollment (%)	79		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)	М	P	
Mobile telephone service	М	P	
Internet service	М	P	
Foreign ownership (not allowed, restricted, allowed)	A	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	1.8	1.1	2.6
Telecommunications investment (% of revenue)	26.3	12.7	16.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	25.0	18.4	39.9
Mobile-cellular telephone subscriptions (per 100 people)	87.3	145.8	123.3
Fixed-broadband subscriptions (per 100 people)	3.1	9.9	28.0
Households with a computer (%)	65.7	97.2	80.3
Households with Internet access at home (%)	31.5	98.0	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	79.1		
Domestic mobile traffic (minutes/subscription/month)			188.0
Individuals using the Internet (%)	24.7	91.5	80.6
Quality			
Population covered by a mobile-cellular network (%)	99	100	100
International Internet bandwidth (bit/s per Internet user)	3,816	67,473	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		9.1	23.7
Mobile-cellular sub-basket (\$ a month)		18.7	18.7
Fixed-broadband sub-basket (\$ a month)		54.9	26.9
Trade			
ICT goods exports (% of total goods exports)	0.0	0.0	8.2
ICT goods imports (% of total goods imports)	4.8	5.6	10.5
ICT service exports (% of total service exports)			30.3
Applications			
Applications Online service index (0-1, 1=highest presence)	0.53	0.65	0.67
Secure Internet servers (per million people)	20.3	231.6	928.0
cours internet servers (per million people)	20.3	231.0	520.0

Romania

Europe & Central Asia	Upper n	per middle ii		
	Count	ry data	Upper middle- income	
	2005	2014	group 2014	
Economic and social context				
Population (millions)	21	20	2,363	
Urban population (% of total)	53	54	62	
GNI per capita, World Bank Atlas method (\$)	3,920	9,370	7,873	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	6.0	1.7	6.0	
Adult literacy rate (% ages 15 and older)	97	99	94	
Gross primary, secondary, tertiary school enrollment (%)	75	81	80	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed		
Level of competition (competition, partial comp., monopoly)		•		
International gateway(s)	C	С		
Mobile telephone service	C	С		
Internet service	C	C		
Foreign ownership (not allowed, restricted, allowed)	A A (b	A A		
Reg. treatment of VoIP (banned, closed, no framework, allowed	u) A	A		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.8	1.8	2.4	
Telecommunications investment (% of revenue)	23.0		19.	
Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	19.8 60.4 1.7 24.7 9.8	21.3 105.9 18.5 63.8 60.5	17. 101. 11. 46. 45.	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	10.2	13.9	1.0	
Domestic mobile traffic (minutes/subscription/month)	57.2		293.4	
Individuals using the Internet (%)	21.5	54.1	47.	
Quality	00	100		
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	99 2,835	100 ^a 153,807	21,25	
Affordability				
Fixed-telephone sub-basket (\$ a month)		11.9	8.	
Mobile-cellular sub-basket (\$ a month)		18.8	12	
Fixed-broadband sub-basket (\$ a month)		8.7	17.	
Trade				
ICT goods exports (% of total goods exports)	2.2	4.0	18.	
ICT goods imports (% of total goods imports)	6.7	7.1	15.	
ICT service exports (% of total service exports)	19.2	37.2	27.	
Applications				
Online service index (0-1, 1=highest presence)	0.54	0.44	0.3	
Secure Internet servers (per million people)	5.4	125.1	23.	

Russian Federation

	Count	ry data	High- income group
-	2005	2014	2014
Economic and social context			
Population (millions)	144	144	1,399
Urban population (% of total)	73	74	81
GNI per capita, World Bank Atlas method (\$)	4,450	13,210	38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	6.2	2.6	1.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	99 82	100 89	99 95
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	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	No	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.9	2.2	2.6
Telecommunications revenue (% of GDF) Telecommunications investment (% of revenue)	32.1	18.0	16.8
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 (%)	27.9 83.4 1.1 25.0 17.0	27.7 155.1 17.5 71.0 69.9	39.9 123.3 28.0 80.3 81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	 15.2	148.5 70.5	188.0 80.6
individuals using the internet (%)	13.2	70.5	80.0
Quality Population covered by a mobile-cellular network (%)	95		100
International Internet bandwidth (bit/s per Internet user)	655	29,860	131,821
Affordability		2.0	02.7
Fixed-telephone sub-basket (\$ a month)	••	3.9	23.7 18.7
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		7.3 6.3	26.9
Trade			
ICT goods exports (% of total goods exports)	0.2	0.4	8.2
ICT goods imports (% of total goods imports)	7.8	6.8	10.5
ICT service exports (% of total service exports)	23.7	32.3	30.3
Applications Online coving index (0.1. 1=highest precence)	0.51	0.71	0.67
Online service index (0-1, 1=highest presence) Secure Internet servers (per million people)	2.4	84.4	928.0
occure internet servers (her million heable)	2.4	04.4	320.0

Rwanda

Sub-Saharan Africa Low income

Economic and social context Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, 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 Internet service M M M Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications revenue (% of Ferenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Color of the delay of	Low- income group
Population (millions) Urban population (% of total) Urban population (% of total) By 28 GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Sector structure Separate telecommunications/ICT regulator Yes Yes 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) Z-7 Z-7 Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.3 0.4 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.1 Households with a computer (%) Households with linternet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1	014
Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gos primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Separate telecommunications partial comp., monopoly International gateway(s) Mobile telephone service M M M International gateway(s) Mobile telephone service, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) Access Fixed-telephone subscriptions (per 100 people) Double-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with a computer (%) Households with linternet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1	
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GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Separate telecommunications / ICT regulator Mixed Public Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service M M M Foreign ownership (not allowed, restricted, allowed) No No Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.7 2.7 Telecommunications investment (% of revenue) 22.7 44.0 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.3 0.4 Mobile-cellular telephone subscriptions (per 100 people) 0.0 0.1 Households with a computer (%) 0.2 3.4 Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1	30
Adult literacy rate (% ages 15 and older) 65 68 Gross primary, secondary, tertiary school enrollment (%) 55 67 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) M M Mobile telephone service M M M Foreign ownership (not allowed, restricted, allowed) No No Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.7 2.7 Telecommunications investment (% of revenue) 22.7 44.0 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.3 0.4 Mobile-cellular telephone subscriptions (per 100 people) 2.4 64.0 5 Fixed-broadband subscriptions (per 100 people) 0.0 0.1 Households with a computer (%) 0.2 3.4 Households with Internet access at home (%) 0.1 3.8 Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1	626
Gross primary, secondary, tertiary school enrollment (%) 55 67 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) M M M Mobile telephone service M M M Foreign ownership (not allowed, restricted, allowed) No No Reg. treatment of VoIP (banned, closed, no framework, allowed) B A Sector efficiency and capacity Telecommunications revenue (% of GDP) 2.7 2.7 Telecommunications investment (% of revenue) 22.7 44.0 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.3 0.4 Mobile-cellular telephone subscriptions (per 100 people) 2.4 64.0 5 Fixed-broadband subscriptions (per 100 people) 0.0 0.1 Households with a computer (%) 0.2 3.4 Households with Internet access at home (%) 0.1 3.8 Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1 3	6.1
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Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Mobile telephone service Internet service Mobile telephone subscriptions (per 100 people) Mobile telephone subscription	59
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Modile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, no framework, allowed) Body Reg. treatment of VoIP (banned, closed, planed, pla	
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Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.3 0.4 Mobile-cellular telephone subscriptions (per 100 people) 2.4 64.0 5 Fixed-broadband subscriptions (per 100 people) 0.0 0.1 Households with a computer (%) 0.2 3.4 Households with Internet access at home (%) 0.1 3.8 Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1 3	
Access Fixed-telephone subscriptions (per 100 people) 0.3 0.4 Mobile-cellular telephone subscriptions (per 100 people) 2.4 64.0 Fixed-broadband subscriptions (per 100 people) 0.0 0.1 Households with a computer (%) 0.2 3.4 Households with Internet access at home (%) 0.1 3.8 Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1	
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Example 100 people) Double 2.4 64.0 55 people 100 people 10.0 0.1 10.1 10.1 10.1 10.1 10.1 10.1	
Mobile-cellular telephone subscriptions (per 100 people) 2.4 64.0 5 Fixed-broadband subscriptions (per 100 people) 0.0 0.1 Households with a computer (%) 0.2 3.4 Households with Internet access at home (%) 0.1 3.8 Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1 3	0.9
Fixed-broadband subscriptions (per 100 people) 0.0 0.1 Households with a computer (%) 0.2 3.4 Households with Internet access at home (%) 0.1 3.8 Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1 3	57.2
Households with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1	0.2
Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1	4.5
Usage Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1 3	4.2
Int'l. voice traffic, total (minutes/subscription/month) 12.8 2.4 Domestic mobile traffic (minutes/subscription/month) 11.8 82.1 3	
Domestic mobile traffic (minutes/subscription/month) 11.8 82.1 3	
	39.8
marriada dang tile internet (70)	6.3
	0.3
Quality Population covered by a mobile-cellular network (%) 75 99	
	 4,196
international internet bandwidth (bit/s per internet user) 1,050 6,517 4,	+,130
Affordability	
Fixed-telephone sub-basket (\$ a month) 4.6	8.7
	11.7
Fixed-broadband sub-basket (\$ a month) 331.9	44.9
Trade	
ICT goods exports (% of total goods exports) 1.2 0.5	
ICT goods imports (% of total goods imports) 8.4 7.1	2.7
ICT service exports (% of total service exports) 8.4 3.8 2	21.5
Applications	
	0.11
Secure Internet servers (per million people) 3.9	1.2

Samoa

East Asia & Pacific	Lower n	niddle	income
	Count		income group
	2005	2014	2014
Economic and social context	0.40	0.40	0.070
Population (millions) Urban population (% of total)	0.18 21	0.19 19	2,879 39
GNI per capita, World Bank Atlas method (\$)	2.370	4.050	2,012
GDP growth, 2000–05 and 2005–14 (avg. annual %)	4.8	0.9	5.9
Adult literacy rate (% ages 15 and older)	99	99	73
Gross primary, secondary, tertiary school enrollment (%)			67
Sector structure			
Separate telecommunications/ICT regulator	No	Yes	
Status of main fixed-line telephone operator	Public	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s) Mobile telephone service	M M	M M	
Internet service	C	M	
Foreign ownership (not allowed, restricted, allowed)	R	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	4.5		2.3
Telecommunications investment (% of revenue)			19.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	10.8	6.1	4.0
Mobile-cellular telephone subscriptions (per 100 people)	13.3	55.5	87.1
Fixed-broadband subscriptions (per 100 people)	0.0	0.6	2.4
Households with a computer (%)	9.7	21.1	17.0
Households with Internet access at home (%)	4.6	21.9	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		21.1	8.8
Domestic mobile traffic (minutes/subscription/month)			147.6
Individuals using the Internet (%)	3.4	21.2	22.6
Quality Population covered by a mobile-cellular network (%)			94
International Internet bandwidth (bit/s per Internet user)	1,492	6,676	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		12.3	5.0
Mobile-cellular sub-basket (\$ a month)		18.2	7.7
Fixed-broadband sub-basket (\$ a month)		42.8	18.6
Trade			-
ICT goods exports (% of total goods exports)	0.1	0.1	6.2
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	2.0 10.1	2.7 6.9	8.0 51.1
Applications			
Online service index (0-1, 1=highest presence)	0.38	0.24	0.24
Secure Internet servers (per million people)	5.6	31.3	5.9

San Marino

		High i	income
	Count	ry data	High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	0.03		1,399
Urban population (% of total)	94		81
GNI per capita, World Bank Atlas method (\$)	41,830		38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.2		1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)		85	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)	M	М	
Mobile telephone service	M	М	
Internet service	M	М	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	0.4		2.6
Telecommunications investment (% of revenue)	50.0		16.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	70.0		39.9
Mobile-cellular telephone subscriptions (per 100 people)	57.6		123.3
Fixed-broadband subscriptions (per 100 people)	4.1		28.0
Households with a computer (%)			80.3
Households with Internet access at home (%)			81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			100.0
Domestic mobile traffic (minutes/subscription/month)			188.0
Individuals using the Internet (%)	50.3	49.6	80.6
Quality		98	100
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	10,358	649,359	
Affordability			
Fixed-telephone sub-basket (\$ a month)		25.6	23.7
Mobile-cellular sub-basket (\$ a month)		23.8	18.7
Fixed-broadband sub-basket (\$ a month)		22.2	26.9
Trade			
ICT goods exports (% of total goods exports)			8.2
ICT goods imports (% of total goods imports)			10.5
ICT service exports (% of total service exports)			30.3
Applications			
0-11	0.00	0.00	

Online service index (0-1, 1=highest presence) Secure Internet servers (per million people) 0.00 0.28

376.2 1,867.4

0.67

928.0

São Tomé and Principe

Sub-Saharan Africa	Lower n	niddie	income
	0		Lower middle income
	Counti		group
	2005	2014	2014
Economic and social context	0.15	0.10	2.070
Population (millions)	0.15 58	0.19 65	2,879 39
Urban population (% of total)	780	1.670	
GNI per capita, World Bank Atlas method (\$) GDP growth, 2000–05 and 2005–14 (avg. annual %)	3.9	5.1	2,01: 5.9
Adult literacy rate (% ages 15 and older)	85	5.1	7.
Gross primary, secondary, tertiary school enrollment (%)	65	74	6
Sector structure			
Separate telecommunications/ICT regulator	No	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M M	M M	
Mobile telephone service Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed		No	
Sector efficiency and capacity	0.4	5.0	•
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	8.4 14.9	5.8 51.2	2. 19.
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%)	4.6 7.7 0.1 	3.4 64.9 0.5 	4.0 87. 2.0 17.0 18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	33.2	7.4	8.
Domestic mobile traffic (minutes/subscription/month)	4.6	25.5	147.
Individuals using the Internet (%)	13.8	24.4	22.
Quality	0	70	9.
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	8 94	7,453	10,61
international internet bandwidth (bit/ 5 per internet abor)	01	1,100	10,01
Affordability			
Fixed-telephone sub-basket (\$ a month)		8.3	5.
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		12.6 53.1	7. 18.
	••		-3.
Trade			
ICT goods exports (% of total goods exports)	0.0	1.5	6.
ICT goods imports (% of total goods imports)	3.4	4.2	8.
ICT service exports (% of total service exports)	13.4	19.6	51.
Applications			
Online service index (0-1, 1=highest presence)	0.32	0.01	0.2

5.9

12.5

10.7

Secure Internet servers (per million people)

Saudi Arabia

	Count	ry data	High- income
	2005	2014	group 2014
Economic and social context	2000		
Population (millions)	25	31	1,399
Urban population (% of total)	81	83	81
GNI per capita, World Bank Atlas method (\$)	12,460	25,140	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.2	5.5	1.1
Adult literacy rate (% ages 15 and older)	83	94	99
Gross primary, secondary, tertiary school enrollment (%)	75	100	95
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	_		
International gateway(s)	Р	С	
Mobile telephone service	P	C	
Internet service	C	C R	
Foreign ownership (not allowed, restricted, allowed)	No B	C	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.8	2.7	2.6
Telecommunications investment (% of revenue)	21.1	11.6	16.8
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 (%)	15.6 57.4 0.3 30.0 20.0	13.4 179.6 10.4 80.0 94.0	39.9 123.3 28.0 80.3 81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		40.6	
Domestic mobile traffic (minutes/subscription/month)	15.6	102.9	188.0
Individuals using the Internet (%)	12.7	63.7	80.6
Quality			
Population covered by a mobile-cellular network (%)	96	100	100
International Internet bandwidth (bit/s per Internet user)	383	30,548	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		26.4	23.7
Mobile-cellular sub-basket (\$ a month)		14.1	18.7
Fixed-broadband sub-basket (\$ a month)		39.7	26.9
Trade			
ICT goods exports (% of total goods exports)	0.1	0.2	8.2
ICT goods imports (% of total goods imports)	6.5	7.4	10.5
ICT service exports (% of total service exports)	41.5	2.4	30.3
Applications			
Online service index (0-1, 1=highest presence)	0.49	0.77	0.67
Secure Internet servers (per million people)	3.1	45.9	928.0

Senegal

Sub-Saharan Africa	Lower m	income	
	Countr	y data	Lower middle- income group
	2005	2014	2014
Economic and social context			
Population (millions)	11	15	2,879
Urban population (% of total)	41	43	39
GNI per capita, World Bank Atlas method (\$)	770	1,040	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.6	3.4	5.9
Adult literacy rate (% ages 15 and older)	42	43	73
Gross primary, secondary, tertiary school enrollment (%)	41	48	67
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)	M	C	
Mobile telephone service Internet service	M M	C	
Foreign ownership (not allowed, restricted, allowed)	A	No	
Reg. treatment of VoIP (banned, closed, no framework, allowe		No	
Contan officions and consoller			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	7.8	11.4	2.3
Telecommunications investment (% of revenue)	22.1	15.8	19.8
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 (%)	2.4 15.4 0.2 2.9 0.7	2.1 98.8 0.7 11.6 12.6	4.0 87.1 2.4 17.0 18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	36.4	8.8	8.8
Domestic mobile traffic (minutes/subscription/month)	42.6	78.4	147.6
Individuals using the Internet (%)	4.8	17.7	22.6
Quality			
Population covered by a mobile-cellular network (%)	85	92	94
International Internet bandwidth (bit/s per Internet user)	1,437	8,349	10,618
Affordability			_
Fixed-telephone sub-basket (\$ a month)		11.9	5.0
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		16.6 36.4	7.7 18.6
Trade	0.4	0.2	6.2
ICT goods exports (% of total goods exports)	0.4 3.9	0.3 2.2	6.2 8.0
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	28.0	32.3	51.1
Applications Online service index (0-1, 1=highest presence)	0.25	0.31	0.24
Secure Internet servers (per million people)	0.3	3.5	5.9

Serbia

Economic and social context Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP)	Count		Upper
Economic and social context Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000–05 and 2005–14 (avg. annual %) Adult literacy rate (% aggs 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Households with a computer (%) Households with a computer (%) Households with Internet access at home (%) Usage Ust', voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	2005	ry data	middle- income group
Population (millions) Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) 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 (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		2014	_
Urban population (% of total) GNI per capita, World Bank Atlas method (\$) GDP growth, 2000–05 and 2005–14 (avg. annual %) Adult literacy rate (% aggs 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with liternet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)			
GNI per capita, World Bank Atlas method (\$) GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Households with a computer (%) Households with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	7	7	2,361
GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) 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 (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	55	55	62
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) 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 (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	3,630	5,820	7,873
Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) 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 (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	6.3	1.3	6.0
Sector structure Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Usage Usage Ustry Usage Unit'. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		98	94
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	77	84	80
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)			
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	No	Yes	
International gateway(s) Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	Mixed	Mixed	
Mobile telephone service Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Usage Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)			
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	M	М	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	М	C	
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with lnternet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	М	C	
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 (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	No	R	
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 (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	В	No	
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 (%) Usage Ustry Usage	4.5	4.5	2.4
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 (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	22.9		
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 (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	22.3	17.0	15.1
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 (%) **Usage** Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) **Quality** Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) **Affordability** Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)			
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	30.7	37.3	17.6
Fixed-broadband subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) **Usage** Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) **Quality** Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) **Affordability** Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	67.0		
Households with a computer (%) Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	0.4	15.6	
Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	25.0	65.6	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	18.0	51.8	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)			
Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	13.5	7.6	1.6
Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	27.6	122.9	293.4
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	26.3	53.5	47.7
International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)			
Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	96	100	99
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)	795	112,372	21,253
Mobile-cellular sub-basket (\$ a month)			
		6.1	8.9
Fixed-broadband sub-basket (\$ a month)		15.2	
		18.2	17.3
Trade	<i>c</i> -		
ICT goods exports (% of total goods exports)	0.5	1.5	18.0
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	5.5 36.5	3.7 35.9	
Applications Online service index (0-1, 1=highest presence)	0.48	0.39	0.37
Secure Internet servers (per million people)	5.1	43.8	

Seychelles

	Count	ry data	High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	0.08	0.09	1,399
Urban population (% of total)	51	54	81
GNI per capita, World Bank Atlas method (\$)	11,140	13,990	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	-1.0	4.6	1.1
Adult literacy rate (% ages 15 and older)	92	94	99
Gross primary, secondary, tertiary school enrollment (%)	72	72	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)	М	С	
Mobile telephone service	Р	Р	
Internet service	Р	С	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	Α	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	6.4		2.6
Telecommunications investment (% of revenue)	24.9		16.8
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	24.6	22.7	39.9
Mobile-cellular telephone subscriptions (per 100 people)	67.5	162.2	123.3
Fixed-broadband subscriptions (per 100 people)	1.1	12.7	28.0
Households with a computer (%)	12.0	61.8	80.3
Households with Internet access at home (%)	6.0	55.0	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	9.3	4.9	
Domestic mobile traffic (minutes/subscription/month)		41.8	188.0
Individuals using the Internet (%)	25.4	54.3	80.6
Quality			
Population covered by a mobile-cellular network (%)	98	98	100
International Internet bandwidth (bit/s per Internet user)	1,062	28,945	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		9.2	23.7
Mobile-cellular sub-basket (\$ a month)		15.7	18.7
Fixed-broadband sub-basket (\$ a month)		16.7	26.9
Trade			
ICT goods exports (% of total goods exports)	0.0		8.2
ICT goods imports (% of total goods imports)	1.5		10.5
ICT service exports (% of total service exports)	4.9	28.0	30.3
Applications Online service index (0-1, 1=highest presence)	0.49	0.33	0.67
Secure Internet servers (per million people)	482.5	469.8	928.0
coours internet servers (per million people)	1 02.J	+03.0	520.0

Sierra Leone

Sub-Saharan Africa Low income

	Countr	y data	Low- income group
	2005	2014	2014
Economic and social context			
Population (millions)	5	6	622
Urban population (% of total)	37	40	30
GNI per capita, World Bank Atlas method (\$)	320	710	626
GDP growth, 2000–05 and 2005–14 (avg. annual %)	9.0	8.1	6.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	35 	46 	57 59
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)	M	М	
Mobile telephone service	М	М	
Internet service	М	M	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Sector efficiency and capacity Telecommunications revenue (% of GDP)			
Telecommunications investment (% of revenue)			
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	0.5	0.3	0.9
Mobile-cellular telephone subscriptions (per 100 people)	14.3	76.7	57.2
Fixed-broadband subscriptions (per 100 people)	11.0		0.2
Households with a computer (%)	0.8		4.5
Households with Internet access at home (%)			4.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			39.8
Individuals using the Internet (%)	0.2	2.1	6.3
Quality Population covered by a mobile-cellular network (%)	70		
International Internet bandwidth (bit/s per Internet user)		1,994	4,196
Affordability			
Fixed-telephone sub-basket (\$ a month)			8.7
Mobile-cellular sub-basket (\$ a month)			11.7
Fixed-broadband sub-basket (\$ a month)			44.9
Trade			
ICT goods exports (% of total goods exports)	••	••	 2.7
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	0.2	48.8	21.5
Applications			
Online service index (0-1, 1=highest presence)	0.15	0.05	0.11
Secure Internet servers (per million people)	0.7	1.0	1.2

Singapore

	Count	ry data	High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	4	5	1,399
Urban population (% of total)	100	100	81
GNI per capita, World Bank Atlas method (\$)	28,370		38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)	5.2	5.6 97	1.1 99
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	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)	C	С	
Mobile telephone service	C	C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)	A A	A A	
reg. treatment of voir (banned, closed, no framework, allowed,	. А		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.4	3.2	2.6
Telecommunications investment (% of revenue)	12.6		16.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	41.0	35.5	39.9
Mobile-cellular telephone subscriptions (per 100 people)	97.5	158.1	123.3
Fixed-broadband subscriptions (per 100 people)	14.6	27.8	28.0
Households with a computer (%)	74.0	88.0	80.3
Households with Internet access at home (%)	66.0	88.0	81.0
Usage	75.0	042	
Int'l. voice traffic, total (minutes/subscription/month)	75.2	84.3	188.0
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	61.0	82.0	80.6
mulviduals using the internet (%)	01.0	02.0	00.0
Quality Population covered by a mobile-cellular network (%)	100	99	100
International Internet bandwidth (bit/s per Internet user)		616,531	
Affordability			
Fixed-telephone sub-basket (\$ a month)		8.8	23.7
Mobile-cellular sub-basket (\$ a month)		8.7	18.7
Fixed-broadband sub-basket (\$ a month)		19.9	26.9
Trade			
ICT goods exports (% of total goods exports)	45.5	29.9	8.2
ICT goods imports (% of total goods imports)	37.9		10.5
ICT service exports (% of total service exports)	22.2	27.1	30.3
Applications Online cervine index (0.1. 1-highest presence)	0.70	0.99	0.67
Online service index (0-1, 1=highest presence)	275.4	822.3	928.0
Secure Internet servers (per million people)	210.4	022.3	920.0

Sint Maarten (Dutch part)

	Countr	Country data		High incom ountry data group	
	2005	2014	2014		
Economic and social context					
Population (millions)	0.04	0.04	1,399		
Urban population (% of total)	100	100	81		
GNI per capita, World Bank Atlas method (\$)			38,317		
GDP growth, 2000-05 and 2005-14 (avg. annual %)			1.1		
Adult literacy rate (% ages 15 and older)			99		
Gross primary, secondary, tertiary school enrollment (%)			95		
Sector structure					
Separate telecommunications/ICT regulator	No	No			
Status of main fixed-line telephone operator	Public	Public			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	M	M			
Mobile telephone service	M	M			
Internet service	M	М			
Foreign ownership (not allowed, restricted, allowed)	No	No			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)			2.6		
Telecommunications investment (% of revenue)			16.8		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)			39.9		
Mobile-cellular telephone subscriptions (per 100 people)			123.3		
Fixed-broadband subscriptions (per 100 people)			28.0		
Households with a computer (%)			80.3		
Households with Internet access at home (%)	••	••	81.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)			188.0		
Individuals using the Internet (%)			80.6		
Quality					
Population covered by a mobile-cellular network (%)			100		
International Internet bandwidth (bit/s per Internet user)			131,821		
Affordability					
Fixed-telephone sub-basket (\$ a month)			23.7		
Mobile-cellular sub-basket (\$ a month)			18.7		
Fixed-broadband sub-basket (\$ a month)			26.9		
Trade					
ICT goods exports (% of total goods exports)			8.2		
ICT goods imports (% of total goods imports)			10.5		
ICT service exports (% of total service exports)			30.3		
Applications					
Online service index (0-1, 1=highest presence)			0.67		

Slovak Republic

	Count	Country data		Country data		Country data		Country data	High- income
	2005	2014	group 2014						
Economic and social context									
Population (millions)	5	5	1,399						
Urban population (% of total)	56	54	81						
GNI per capita, World Bank Atlas method (\$)	11,330	17,810	38,317						
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.1	2.9	1.1						
Adult literacy rate (% ages 15 and older)			99						
Gross primary, secondary, tertiary school enrollment (%)	78	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)	С	С							
Mobile telephone service	С	С							
Internet service	С	С							
Foreign ownership (not allowed, restricted, allowed)	Α	Α							
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	Α							
Sector efficiency and capacity									
Telecommunications revenue (% of GDP)	3.0	2.4	2.6						
Telecommunications investment (% of revenue)	22.6	12.7	16.8						
Sector performance									
Access									
Fixed-telephone subscriptions (per 100 people)	22.2	16.8	39.9						
Mobile-cellular telephone subscriptions (per 100 people)	84.2	116.9	123.3						
Fixed-broadband subscriptions (per 100 people)	3.4	21.8	28.0						
Households with a computer (%)	47.0	80.5	80.3						
Households with Internet access at home (%)	23.0	78.4	81.0						
Usage									
Int'l. voice traffic, total (minutes/subscription/month)	12.4	13.1							
Domestic mobile traffic (minutes/subscription/month)	86.4	127.7	188.0						
Individuals using the Internet (%)	55.2	80.0	80.6						
Quality									
Population covered by a mobile-cellular network (%)	100	100	100						
International Internet bandwidth (bit/s per Internet user)	4,772	11,462	131,821						
Affordability									
Fixed-telephone sub-basket (\$ a month)		18.1	23.7						
Mobile-cellular sub-basket (\$ a month)		16.1	18.7						
Fixed-broadband sub-basket (\$ a month)		26.4	26.9						
Trade									
ICT goods exports (% of total goods exports)	9.4	17.6	8.2						
ICT goods imports (% of total goods imports)	8.3	14.2	10.5						
ICT service exports (% of total service exports)	24.2	30.2	30.3						
Annilosations									
Applications Online service index (0-1, 1=highest presence)	0.59	0.49	0.67						
Secure Internet servers (per million people)	18.4	321.3	928.0						

Slovenia

		High i	income		
	Count	Country data		Country data i	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	2	2	1,399		
Urban population (% of total)	51		81		
GNI per capita, World Bank Atlas method (\$)	18,460	,	38,317		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.6		1.1		
Adult literacy rate (% ages 15 and older)	100		99		
Gross primary, secondary, tertiary school enrollment (%)	92	98	95		
Sector structure					
Separate telecommunications/ICT regulator	Yes				
Status of main fixed-line telephone operator	Mixed	Mixed			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	С	С			
Mobile telephone service	С				
Internet service	С	С			
Foreign ownership (not allowed, restricted, allowed)	Α				
Reg. treatment of VoIP (banned, closed, no framework, allowed)	Α	Α			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	3.3		2.6		
Telecommunications investment (% of revenue)	23.8	18.5	16.8		
Sector performance					
Access	54.0	07.4	00.0		
Fixed-telephone subscriptions (per 100 people)	51.0		39.9		
Mobile-cellular telephone subscriptions (per 100 people)	87.9		123.3		
Fixed-broadband subscriptions (per 100 people)	9.8		28.0		
Households with a computer (%)	61.0		80.3		
Households with Internet access at home (%)	48.2	76.8	81.0		
Usage	11.6	10.0			
Int'l. voice traffic, total (minutes/subscription/month)	11.6		100 (
Domestic mobile traffic (minutes/subscription/month)	109.4 46.8		188.0 80.6		
Individuals using the Internet (%)	40.6	71.0	00.0		
Quality Population covered by a mobile-cellular network (%)	99	100	100		
International Internet bandwidth (bit/s per Internet user)		121,137			
Affordability					
Fixed-telephone sub-basket (\$ a month)		18.4	23.7		
Mobile-cellular sub-basket (\$ a month)		24.1	18.7		
Fixed-broadband sub-basket (\$ a month)		25.2	26.9		
Trade					
ICT goods exports (% of total goods exports)	1.3	1.7	8.2		
ICT goods imports (% of total goods imports)	4.3		10.5		
ICT service exports (% of total service exports)	20.4		30.3		
Applications					

Online service index (0-1, 1=highest presence)

Secure Internet servers (per million people)

0.67

79.0

0.43

648.3

0.67

928.0

Solomon Islands

East Asia & Pacific I	ower n	ower middle i			wer middle incon	
	Countr	Country data				
	2005	2014	group 2014			
Economic and social context						
Population (millions)	0.47	0.57	2,879			
Urban population (% of total)	18	22	39			
GNI per capita, World Bank Atlas method (\$)	900	1,830	2,012			
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.6	5.1	5.9			
Adult literacy rate (% ages 15 and older)			73			
Gross primary, secondary, tertiary school enrollment (%)	51		67			
Sector structure						
Separate telecommunications/ICT regulator	No	Yes				
Status of main fixed-line telephone operator	Mixed	Mixed				
Level of competition (competition, partial comp., monopoly)						
International gateway(s)	М	М				
Mobile telephone service	M	M				
Internet service	M No	M No				
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed)		A				
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.7		2.3			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	2.1		2.3 19.8			
Sector performance						
Access Fixed-telephone subscriptions (per 100 people)	1.6	1.3	4.0			
Mobile-cellular telephone subscriptions (per 100 people)	1.3	65.8	87.1			
Fixed-broadband subscriptions (per 100 people)	0.1	0.3	2.4			
Households with a computer (%)		6.1	17.0			
Households with Internet access at home (%)		5.6	18.3			
Usage						
Int'l. voice traffic, total (minutes/subscription/month)			8.8			
Domestic mobile traffic (minutes/subscription/month)			147.6			
Individuals using the Internet (%)	0.8	9.0	22.6			
Quality						
Population covered by a mobile-cellular network (%)			94			
International Internet bandwidth (bit/s per Internet user)	2,044	4,277	10,618			
Affordability						
Fixed-telephone sub-basket (\$ a month)		11.1	5.0			
Mobile-cellular sub-basket (\$ a month)		17.7	7.7			
Fixed-broadband sub-basket (\$ a month)		271.2	18.6			
Trade						
ICT goods exports (% of total goods exports)		0.0	6.2			
ICT goods imports (% of total goods imports)		3.2	8.0			
ICT service exports (% of total service exports)	57.5	22.9	51.1			
Applications						
Applications Online service index (0-1, 1=highest presence)	0.27	0.06	0.24			
Secure Internet servers (per million people)	4.3	3.5	5.9			
		0.0	0.0			

Somalia

Sub-Saharan Africa Low income

	Countr	Country data		Country data		Country data	Low- income group
	2005	2005 2014					
Economic and social context							
Population (millions)	8	11	622				
Urban population (% of total)	35	39	30				
GNI per capita, World Bank Atlas method (\$)			626				
GDP growth, 2000-05 and 2005-14 (avg. annual %)			6.1				
Adult literacy rate (% ages 15 and older)			57				
Gross primary, secondary, tertiary school enrollment (%)			59				
Sector structure							
Separate telecommunications/ICT regulator	No	No					
Status of main fixed-line telephone operator	Private	Public					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)	М	М					
Mobile telephone service	M	М					
Internet service	М	М					
Foreign ownership (not allowed, restricted, allowed)	No	No					
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	No					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)							
Telecommunications investment (% of revenue)							
Sector performance							
Access	4.0	0.5	0.0				
Fixed-telephone subscriptions (per 100 people)	1.2	0.5	0.9				
Mobile-cellular telephone subscriptions (per 100 people)	5.9	50.9	57.2				
Fixed-broadband subscriptions (per 100 people)		0.6	0.2				
Households with a computer (%)			4.5				
Households with Internet access at home (%)	••		4.2				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)			39.8				
Domestic mobile traffic (minutes/subscription/month)	1.1	1.6	6.3				
Individuals using the Internet (%)	1.1	1.0	0.3				
Quality Population covered by a mobile-cellular network (%)		80					
International Internet bandwidth (bit/s per Internet user)	33	568	4,196				
international internet bandwidth (bit/s per internet user)	33	506	4,190				
Affordability			0.7				
Fixed-telephone sub-basket (\$ a month)			8.7				
Mobile-cellular sub-basket (\$ a month)			11.7				
Fixed-broadband sub-basket (\$ a month)			44.9				
Trade							
ICT goods exports (% of total goods exports)							
ICT goods imports (% of total goods imports)			2.7				
ICT service exports (% of total service exports)			21.5				
Applications	0.00						
Online service index (0-1, 1=highest presence)	0.00	0.02	0.11				
Secure Internet servers (per million people)	0.1	0.1	1.2				

South Africa

			income		
	Count	Country data			
	2005	2014	group 2014		
Economic and social context					
Population (millions)	47	54	2,361		
Urban population (% of total)	60	64	62		
GNI per capita, World Bank Atlas method (\$)	5,050	6,800	7,873		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.8	2.5	6.0		
Adult literacy rate (% ages 15 and older)	89	94	94		
Gross primary, secondary, tertiary school enrollment (%)		78	80		
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	M			
Mobile telephone service	M	M			
Internet service	M	M			
Foreign ownership (not allowed, restricted, allowed)	R	R			
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) A	Α			
Sector efficiency and capacity					
Telecommunications revenue (% of GDP)	6.0	4.3	2.4		
Telecommunications investment (% of revenue)	13.1	13.7	19.7		
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	10.2	8.1	17.6		
Mobile-cellular telephone subscriptions (per 100 people)	70.4		101.4		
Fixed-broadband subscriptions (per 100 people)	0.3	3.2	11.7		
Households with a computer (%)	13.0		46.0		
Households with Internet access at home (%)	3.0	37.3	45.3		
Usage		4.0			
Int'l. voice traffic, total (minutes/subscription/month)		1.2	1.6		
Domestic mobile traffic (minutes/subscription/month)		39.6	293.4		
Individuals using the Internet (%)	7.5	49.0	47.7		
Quality	96	100	99		
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)		149,542	21,253		
Affordability		10 5	0.0		
Fixed-telephone sub-basket (\$ a month)		19.5	8.9		
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		20.4 17.1	12.4 17.3		
Trade					
Irane	1.2	1.2	18.0		
Trade ICT goods exports (% of total goods exports)		8.2	15.1		
ICT goods exports (% of total goods exports)	111	0.2			
	11.1 9.8	15.4	27.4		
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)		15.4	27.4		
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)		15.4 0.39	0.37		

South Sudan

Sub-Saharan Africa	Low income
Sub-Saharan Africa	Low incon

		Countr	Country data		Lo inc country data	
Population (millions)	-	2005	2014	group 2014		
Urban population (% of total)	Economic and social context					
GNI per capita, World Bank Atlas method (\$) 940 620 GDP growth, 2000–05 and 2005–14 (avg. annual %)7.0 6. Adult literacy rate (% ages 15 and older) 55 Gross primary, secondary, tertiary school enrollment (%) 65 Gross primary, secondary, tertiary school enrollment (%) 66 Gross primary, secondary, tertiary school enrollment (%) 67 Gross primary school enrollment (%) 67 Gross prim	Population (millions)	8	12	622		
GDP growth, 2000-05 and 2005-14 (avg. annual %)		17		30		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, 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 Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service M M M Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) B C Sector efficiency and capacity Telecommunications revenue (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Mobile-cellular subscriptions (per 100 people) Mobile-cell				626		
Sector structure Separate telecommunications/ICT regulator No No Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Mobile telephone subscriptions (per 100 people) Mobile traffic, total (minutes/subscription/month) Mobile traffic (minutes/subscription/month) Mobile traffic (minutes/subscription/month) Mobile traffic total telephone sub-basket (\$ a month) Mobile t			-7.0	6.1		
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Mobile telephone service (% of GDP) Sector efficiency and capacity Telecommunications revenue (% of GDP) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Mobile telephone service Mobile telephone Mob				57 59		
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Mobile telephone subscriptions (closed, no framework, allowed) Mobile telephone subscriptions (per 100 people) Mobile telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Mobile telephone subscription (per 100 people) Mobile telephone subscription (per 100 people) Mobile telephone telephone (%) Mobile telephone telephone (%) Mobile telephone telephone (%) Mobile telephone telephone (%) Mobile telephone telephone telephone (%) Mobile telephone sub-basket (\$ a month) Mob	Sector structure					
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Mobile telephone subscriptions (per 100 people) Mobile tellular tell	Separate telecommunications/ICT regulator	No	No			
International gateway(s) M M M M M M M M M M M M M M M M M M M	Status of main fixed-line telephone operator	Mixed	Public			
Mobile telephone service						
Internet service Foreign ownership (not allowed, restricted, allowed) Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, allowed) Reg. treatment of VoIP (banned, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, allowed) Reg. treatment of VoIP (banned) Reg. treatment of VoIP (banned) Rec. treatment of VoIP (banned) Rec. treatment of CoIP (banned						
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) B C Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with lnternet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total service exports) Applications	·					
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Tixed-broadband subscriptions (per 100 people) O.0 O.0 Households with a computer (%) Households with Internet access at home (%) Sage Int'l. voice traffic, total (minutes/subscription/month) Individuals using the Internet (%) Oquality Population covered by a mobile-cellular network (%) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) ICT geods imports (% of total service exports) Applications						
Sector efficiency and capacity Telecommunications revenue (% of GDP)	•					
Telecommunications revenue (% of GDP) 3.3 Telecommunications investment (% of revenue) 21.1 Sector performance Access Fixed-telephone subscriptions (per 100 people) 0.0 0.0 Mobile-cellular telephone subscriptions (per 100 people) 24.5 57.2 Fixed-broadband subscriptions (per 100 people) 0.0 0.0 Households with a computer (%) 10.0 4.1 Households with Internet access at home (%) 9.6 4.2 Usage Int'l. voice traffic, total (minutes/subscription/month) 10.2 Domestic mobile traffic (minutes/subscription/month) 42.1 33.4 Individuals using the Internet (%) 15.9 6.3 Quality Population covered by a mobile-cellular network (%) 42 International Internet bandwidth (bit/s per Internet user) 27 4,196 Affordability Fixed-telephone sub-basket (\$ a month) 1.1 Fixed-broadband sub-basket (\$ a month) 1.1 Trade ICT goods exports (% of total goods exports) 1.1 CIT goods imports (% of total goods imports) 2.1 Applications	Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	С			
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) Douseholds with a computer (%) Households with Internet access at home (%) Sector performance Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Access Individuals using the Internet (%) Access Usage Int'l. voice traffic, total (minutes/subscription/month) Access Access Applications Output Access Output			3 3			
Access Fixed-telephone subscriptions (per 100 people) 0.0 0.5 Mobile-cellular telephone subscriptions (per 100 people) 24.5 57. Fixed-broadband subscriptions (per 100 people) 0.0 0.5 Households with a computer (%) 10.0 4. Households with Internet access at home (%) 10.0 4. Usage Int'l. voice traffic, total (minutes/subscription/month) 10.2 Domestic mobile traffic (minutes/subscription/month) 15.9 6. Quality Population covered by a mobile-cellular network (%) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) 11. Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total service exports) Applications	• • •					
Mobile-cellular telephone subscriptions (per 100 people) 24.5 57.2 Fixed-broadband subscriptions (per 100 people) 0.0 0.2 Households with a computer (%) 10.0 4.4 Households with Internet access at home (%) 9.6 4.2 Usage Int'l. voice traffic, total (minutes/subscription/month) 10.2 10.2 Domestic mobile traffic (minutes/subscription/month) 42.1 39.4 Individuals using the Internet (%) 15.9 6.3 Quality Population covered by a mobile-cellular network (%) 42 International Internet bandwidth (bit/s per Internet user) 27 4,196 Affordability Fixed-telephone sub-basket (\$ a month) 8. Mobile-cellular sub-basket (\$ a month) 11. Fixed-broadband sub-basket (\$ a month) 11. Fixed-broadband sub-basket (\$ a month) 44. Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total service exports) Applications	Access		0.0	0.9		
Fixed-broadband subscriptions (per 100 people) 0.0 0.0 Households with a computer (%) 10.0 4.1 Households with Internet access at home (%) 9.6 4.2 Usage Int'l. voice traffic, total (minutes/subscription/month) 10.2 10.2 Domestic mobile traffic (minutes/subscription/month) 42.1 39.4 Individuals using the Internet (%) 15.9 6.3 Quality Population covered by a mobile-cellular network (%) 42 International Internet bandwidth (bit/s per Internet user) 27 4,190 Affordability Fixed-telephone sub-basket (\$ a month) 8. Mobile-cellular sub-basket (\$ a month) 11. Fixed-broadband sub-basket (\$ a month) 11. 44.3 Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) 21. Applications				57.2		
Households with a computer (%) 10.0 4.1 Households with Internet access at home (%) 9.6 4.2 Usage Int'l. voice traffic, total (minutes/subscription/month) 10.2 Domestic mobile traffic (minutes/subscription/month) 42.1 39.6 Individuals using the Internet (%) 15.9 6.3 Quality Population covered by a mobile-cellular network (%) 42 International Internet bandwidth (bit/s per Internet user) 27 4,190 Affordability Fixed-telephone sub-basket (\$ a month) 8. Mobile-cellular sub-basket (\$ a month) 11. Fixed-broadband sub-basket (\$ a month) 11. Fixed-broadband sub-basket (\$ a month) 24. Trade ICT goods exports (% of total goods exports) 11. ICT goods imports (% of total goods imports) 2. Applications				0.2		
Households with Internet access at home (%) Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic, total (minutes/subscription/month) Domestic mobile traffic				4.5		
Int'l. voice traffic, total (minutes/subscription/month)	· · · · ·		9.6	4.2		
Domestic mobile traffic (minutes/subscription/month)	•					
Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) ICT geods imports (% of total service exports) Applications						
Quality Population covered by a mobile-cellular network (%)				39.8		
Population covered by a mobile-cellular network (%) 42 International Internet bandwidth (bit/s per Internet user) 27 4,196 Affordability Fixed-telephone sub-basket (\$ a month) 8. Mobile-cellular sub-basket (\$ a month) 11. Fixed-broadband sub-basket (\$ a month) 44. Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) 2. ICT service exports (% of total service exports) 21. Applications	Individuals using the Internet (%)		15.9	6.3		
International Internet bandwidth (bit/s per Internet user) 27 4,190 Affordability Fixed-telephone sub-basket (\$ a month) 8. Mobile-cellular sub-basket (\$ a month) 11. Fixed-broadband sub-basket (\$ a month) 44. Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) 2. ICT service exports (% of total service exports) 21. Applications			12			
Fixed-telephone sub-basket (\$ a month) 8. Mobile-cellular sub-basket (\$ a month) 11. Fixed-broadband sub-basket (\$ a month) 44. Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) 2. ICT service exports (% of total service exports) 21. Applications				4,196		
Mobile-cellular sub-basket (\$ a month)	Affordability					
Fixed-broadband sub-basket (\$ a month)	Fixed-telephone sub-basket (\$ a month)			8.7		
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) Applications	Mobile-cellular sub-basket (\$ a month)			11.7		
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) 2. ICT service exports (% of total service exports) 21. Applications	Fixed-broadband sub-basket (\$ a month)			44.9		
ICT goods imports (% of total goods imports) 2. ICT service exports (% of total service exports) 21. Applications						
ICT service exports (% of total service exports)21.s **Applications**				2.7		
				21.5		
	Applications					
Online service index (0-1, 1=highest presence) 0.01 0.1			0.01	0.11		
Secure Internet servers (per million people) 0.2 1.3	Secure Internet servers (per million people)		0.2	1.2		

Spain

	Country data		High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	44	46	1,399
Urban population (% of total)	77	79	81
GNI per capita, World Bank Atlas method (\$)	25,930 3.3		38,317 1.1
GDP growth, 2000-05 and 2005-14 (avg. annual %) Adult literacy rate (% ages 15 and older)	3.3 98	-0.2 98	99
Gross primary, secondary, tertiary school enrollment (%)	96	108	95
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)		•	
International gateway(s)	C	C	
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)	3.0	2.1	2.6
Telecommunications investment (% of revenue)	19.6	16.1	16.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	44.9	40.6	39.9
Mobile-cellular telephone subscriptions (per 100 people)	98.4	107.8	123.3
Fixed-broadband subscriptions (per 100 people)	11.6	27.3	28.0
Households with a computer (%)	55.0	74.0	80.3
Households with Internet access at home (%)	35.5	74.4	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	93.1		188.0
Individuals using the Internet (%)	47.9	76.2	80.6
Quality	99	100	100
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)		111,545	
Affordability			
Fixed-telephone sub-basket (\$ a month)		32.0	23.7
Mobile-cellular sub-basket (\$ a month)		37.8	18.7
Fixed-broadband sub-basket (\$ a month)		32.0	26.9
Trade			
ICT goods exports (% of total goods exports)	3.7	1.1	8.2
ICT goods imports (% of total goods imports)	7.2		10.5
ICT service exports (% of total service exports)	23.3	35.9	30.3
Applications	0.70	0.04	0.67
Online service index (0-1, 1=highest presence)	0.72 81.2	0.94 316.8	0.67 928.0
Secure Internet servers (per million people)	81.2	310.8	928.0

Sri Lanka

South Asia L	ower middle income			
	Country data		Lower middle- income group	
	2005	2014	2014	
Economic and social context				
Population (millions)	20	21	2,879	
Urban population (% of total)	18	18	39	
GNI per capita, World Bank Atlas method (\$)	1,210	3,400	2,012	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.3	6.7	5.9	
Adult literacy rate (% ages 15 and older)	91	91	73	
Gross primary, secondary, tertiary school enrollment (%)		78	67	
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)	М	М		
Mobile telephone service	М	М		
Internet service	М	М		
Foreign ownership (not allowed, restricted, allowed)	Α	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	А		
Sector efficiency and capacity	2.5	1.9	2.3	
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	12.2	33.4	19.8	
- Telecommunications investment (% of revenue)	12.2	33.4	13.0	
Sector performance Access				
Fixed-telephone subscriptions (per 100 people)	6.2	12.5	4.0	
Mobile-cellular telephone subscriptions (per 100 people)	16.8	103.2	87.1	
Fixed-broadband subscriptions (per 100 people)	0.1	2.6	2.4	
Households with a computer (%)	5.0	17.8	17.0	
Households with Internet access at home (%)	1.1	15.3	18.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)		9.6	8.8	
Domestic mobile traffic (minutes/subscription/month)	74.7	158.7	147.6	
Individuals using the Internet (%)	1.8	25.8	22.6	
Quality				
Population covered by a mobile-cellular network (%)	85	98	94	
International Internet bandwidth (bit/s per Internet user)	1,396	12,651	10,618	
Affordability		0.5		
Fixed-telephone sub-basket (\$ a month)		2.9	5.0	
Mobile-cellular sub-basket (\$ a month)		0.9	7.7	
Fixed-broadband sub-basket (\$ a month)		4.3	18.6	
Trade	4 4	0.3	6.2	
ICT goods exports (% of total goods exports)	1.1			
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.9 20.4	3.8 14.1	8.0 51.1	
Applications				
Online service index (0-1, 1=highest presence)	0.42	0.65	0.24	
Secure Internet servers (per million people)	1.8	11.4	5.9	
	1.0	11.7	J.	

St. Kitts and Nevis

	Count	Country data		Country data	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	0.05	0.05	1,399		
Urban population (% of total)	32	32	81		
GNI per capita, World Bank Atlas method (\$)	10,970	14,490	38,317		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.8	0.5	1.1		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)			99 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)	М	M			
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)	6.2	5.6	2.6		
Telecommunications investment (% of revenue)	25.3	17.3	16.8		
Sector performance					
Access	41.3	34.9	39.9		
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	103.8	139.8	123.3		
Fixed-broadband subscriptions (per 100 people)	13.2	24.5	28.0		
Households with a computer (%)	17.3	66.5	80.3		
Households with Internet access at home (%)		62.8	81.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	58.2	63.5			
Domestic mobile traffic (minutes/subscription/month)	102.1	32.3	188.0		
Individuals using the Internet (%)	34.0	65.4	80.6		
Quality			100		
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)		139,540			
Affordability					
Fixed-telephone sub-basket (\$ a month)		12.6	23.7		
Mobile-cellular sub-basket (\$ a month)		22.9	18.7		
Fixed-broadband sub-basket (\$ a month)		36.7	26.9		
Trade					
ICT goods exports (% of total goods exports)	2.4	22.5	8.2		
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	8.3 14.0	5.9 10.7	10.5 30.3		
Applications					
Applications Online service index (0-1, 1=highest presence)	0.48	0.13	0.67		

St. Lucia

						mic	Upper middle- income
	Count	ry data	group				
	2005	2014	2014				
Economic and social context							
Population (millions)	0.17		,				
Urban population (% of total)	23	7 000	7 9 7 2				
GNI per capita, World Bank Atlas method (\$) GDP growth, 2000–05 and 2005–14 (avg. annual %)	5,280 2.2	7,080 0.6	7,873 6.0				
Adult literacy rate (% ages 15 and older)			92				
Gross primary, secondary, tertiary school enrollment (%)	73		80				
Sector structure							
Separate telecommunications/ICT regulator	Yes	Yes					
Status of main fixed-line telephone operator	Private	Private					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)	C	C					
Mobile telephone service	C	C					
Internet service	M						
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed	A d) No	A No					
Sector efficiency and capacity							
Telecommunications revenue (% of GDP)	9.2	6.5	2				
Telecommunications investment (% of revenue)	9.4	10.1	19.				
Sector performance							
Access Fixed-telephone subscriptions (per 100 people)	23.6	17.9	17.0				
Mobile-cellular telephone subscriptions (per 100 people)	63.9						
Fixed-broadband subscriptions (per 100 people)	4.2	15.4					
Households with a computer (%)	7.2	20.0					
Households with Internet access at home (%)		38.9					
Usage							
Int'l. voice traffic, total (minutes/subscription/month)	53.5	28.7					
Domestic mobile traffic (minutes/subscription/month)	64.7						
Individuals using the Internet (%)	21.6	51.0	47.				
Quality Population covered by a mobile-cellular network (%)	80		9:				
International Internet bandwidth (bit/s per Internet user)		128,157					
Affordability							
Fixed-telephone sub-basket (\$ a month)		13.4					
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		24.9 36.2	12 17				
Trade							
ICT goods exports (% of total goods exports)	4.8		18.				
ICT goods imports (% of total goods imports)	5.5		15.				
ICT service exports (% of total service exports)	5.9	7.6					
Applications							
Online service index (0-1, 1=highest presence)	0.47	0.24					
Secure Internet servers (per million people)	36.3	92.6	23.				

St. Martin (French part)

	Country data		High- income group	
•	2005	2014	2014	
Economic and social context				
Population (millions)	0.03	0.03	1,399	
Urban population (% of total)			81	
GNI per capita, World Bank Atlas method (\$)			38,317	
GDP growth, 2000-05 and 2005-14 (avg. annual %)			1.1	
Adult literacy rate (% ages 15 and older)			99	
Gross primary, secondary, tertiary school enrollment (%)			95	
Sector structure				
Separate telecommunications/ICT regulator	No	No		
Status of main fixed-line telephone operator	Public	Public		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)	М	M		
Mobile telephone service	М	M		
Internet service	М	M		
Foreign ownership (not allowed, restricted, allowed)	No	No		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В		
Sector efficiency and capacity			0.0	
Telecommunications revenue (% of GDP)			2.6	
Telecommunications investment (% of revenue)			16.8	
Sector performance				
Access Fixed-telephone subscriptions (per 100 people)			39.9	
Mobile-cellular telephone subscriptions (per 100 people)	••		123.3	
Fixed-broadband subscriptions (per 100 people)			28.0	
Households with a computer (%)			80.3	
Households with Internet access at home (%)			81.0	
modernoids with memor decess at noine (%)			01.0	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)			100.6	
Domestic mobile traffic (minutes/subscription/month)			188.0	
Individuals using the Internet (%)		••	80.6	
Quality			100	
Population covered by a mobile-cellular network (%)			100	
International Internet bandwidth (bit/s per Internet user)			131,821	
Affordability				
Fixed-telephone sub-basket (\$ a month)			23.7	
Mobile-cellular sub-basket (\$ a month)			18.7	
Fixed-broadband sub-basket (\$ a month)			26.9	
Trade				
ICT goods exports (% of total goods exports)			8.2	
ICT goods imports (% of total goods imports)			10.5	
ICT service exports (% of total service exports)			30.3	
Applications				
Online service index (0-1, 1=highest presence)			0.67	
Secure Internet servers (per million people)		32.3	928.0	

St. Vincent and the Grenadines

Latin America & Caribbean	Upper n	income	
	Count	ry data	Upper middle- income
	2005	2014	group 2014
Economic and social context	2000		
Population (millions)	0.11	0.11	2,361
Urban population (% of total)	47	50	62
GNI per capita, World Bank Atlas method (\$)	4,950	6,560	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.9	0.3	6.0
Adult literacy rate (% ages 15 and older)			94
Gross primary, secondary, tertiary school enrollment (%)	78		80
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Private	Private	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	C	C	
Mobile telephone service	C	C	
Internet service Foreign ownership (not allowed, restricted, allowed)	C A	C A	
Reg. treatment of VoIP (banned, closed, no framework, allow		No	
	eu) No	INU	
Sector efficiency and capacity	0.0	7.0	0.4
Telecommunications revenue (% of GDP)	9.6	7.2	2.4
Telecommunications investment (% of revenue)		10.5	19.7
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	20.7	21.9	17.6
Mobile-cellular telephone subscriptions (per 100 people)	64.9 3.4	105.2 14.9	101.4 11.7
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	16.8	68.9	46.0
Households with Internet access at home (%)	14.1	58.5	45.3
Usage Int'l. voice traffic, total (minutes/subscription/month)	58.9	34.7	1.6
Domestic mobile traffic (minutes/subscription/month)	49.4		293.4
Individuals using the Internet (%)	9.2		47.7
• , ,			
Quality Deputation severed by a makile callular nativers (%)	100	100	99
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	299,909		
international internet bandwidth (bit/s per internet user)	299,909	140,200	21,233
Affordability			_
Fixed-telephone sub-basket (\$ a month)		10.9	8.9
Mobile-cellular sub-basket (\$ a month)		22.3	12.4
Fixed-broadband sub-basket (\$ a month)		33.6	17.3
Trade			
ICT goods exports (% of total goods exports)	1.4	2.5	18.0
ICT goods imports (% of total goods imports)	6.4	3.3	15.1
ICT service exports (% of total service exports)	24.8	25.1	27.4
Applications			
Online service index (0-1, 1=highest presence)	0.43	0.16	0.37
, , ,			

Sudan

Sub-Saharan Africa	Lower n	wer middle i			
	Counti	Country data		middle incom	Lower middle- income group
	2005	2014	2014		
Economic and social context					
Population (millions) ^b	32	39	2,879		
Urban population (% of total) ^b	33	34	39		
GNI per capita, World Bank Atlas method (\$)	560	1,710	2,012		
GDP growth, 2000-05 and 2005-14 (avg. annual %) ^c	6.3	3.5	5.9		
Adult literacy rate (% ages 15 and older) ^b	61	74	73		
Gross primary, secondary, tertiary school enrollment (%) ^b	42	47	67		
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	P			
Mobile telephone service	P	P			
Internet service	P	C			
Foreign ownership (not allowed, restricted, allowed)	R R	R C			
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) B				
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.9	1.5	2.3		
Telecommunications investment (% of revenue)	384.0	332.4	19.8		
Telecommunications investment (% of revenue)	304.0	332.7	15.0		
Sector performance Access					
Fixed-telephone subscriptions (per 100 people)	1.5	1.1	4.0		
Mobile-cellular telephone subscriptions (per 100 people)	4.8	72.2	87.1		
Fixed-broadband subscriptions (per 100 people)	0.0	0.1	2.4		
Households with a computer (%)	3.0	16.6	17.0		
Households with Internet access at home (%)	0.6	32.2	18.3		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	5.6	7.6	8.8		
Domestic mobile traffic (minutes/subscription/month)	81.1	26.3	147.6		
Individuals using the Internet (%)	1.3	24.6	22.6		
Quality					
Population covered by a mobile-cellular network (%)	34	89	94		
International Internet bandwidth (bit/s per Internet user)	407	2,499	10,618		
Affordability					
Fixed-telephone sub-basket (\$ a month)		3.7	5.0		
Mobile-cellular sub-basket (\$ a month)		3.7	7.7		
Fixed-broadband sub-basket (\$ a month)		5.7	18.6		
Trade		_	_		
ICT goods exports (% of total goods exports)	0.0	0.0	6.2		
ICT goods imports (% of total goods imports)	4.2	3.8	8.0		
ICT service exports (% of total service exports)	2.7	9.3	51.1		
Applications					
Online service index (0-1, 1=highest presence)	0.22	0.29	0.24		
Secure Internet servers (per million people)	0.0	0.0	5.9		

Suriname

Latin America & Caribbean U	pper n	niddle	income
	Count	ry data	Upper middle- income
	2005	2014	group 2014
Economic and social context			
Population (millions)	0.49	0.54	2,361
Urban population (% of total)	67	66	62
GNI per capita, World Bank Atlas method (\$)	3,380	9,470	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.9	4.2	6.0
Adult literacy rate (% ages 15 and older)	90	95	94
Gross primary, secondary, tertiary school enrollment (%)			80
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	С	
Mobile telephone service	М	С	
Internet service	P	С	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
Sector efficiency and capacity	E 7	4.7	2
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	5.7 32.4	4.7 14.7	2.4 19.1
totodominamodados invocament (10 de 10 totolado)	02.1	2.00	10.
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	16.2	15.6	17.0
Mobile-cellular telephone subscriptions (per 100 people)	46.6	170.6	101.4
Fixed-broadband subscriptions (per 100 people)	0.2	8.5	11.
Households with a computer (%)	17.3	35.8	46.0
Households with Internet access at home (%)	5.2	20.5	45.
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		28.9	1.0
Domestic mobile traffic (minutes/subscription/month)	43.0	70.6	293.4
Individuals using the Internet (%)	6.4	40.1	47.
Quality			
Population covered by a mobile-cellular network (%)		100	9
International Internet bandwidth (bit/s per Internet user)	1,407	50,458	21,25
Affordability			-
Fixed-telephone sub-basket (\$ a month)		2.9	8.9
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		14.4 41.5	12.4 17.5
Trade			
ICT goods exports (% of total goods exports)	0.2	0.1	18.0
ICT goods exports (% of total goods exports)	3.3	2.8	15.
ICT service exports (% of total service exports)		29.4	27.4
Applications			
Online service index (0-1, 1=highest presence)	0.35	0.14	0.3
Secure Internet servers (per million people)	10.2	55.7	23.3

Swaziland

Sub-Saharan Africa	Lower n	wer middle i		
	County	Country data		
				gr
Francois and social contains	2005	2014	2014	
Economic and social context Population (millions)	1	1	2,879	
Urban population (% of total)	22	21	39	
GNI per capita, World Bank Atlas method (\$)	2,390	2,700	2,012	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.2	2.2	5.9	
Adult literacy rate (% ages 15 and older)	82	83	73	
Gross primary, secondary, tertiary school enrollment (%)	61	67	67	
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	M	M		
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)	12.4	4.7	2.3	
Telecommunications investment (% of revenue)	13.2	6.8	19.8	
Sector performance				
Access				
Fixed-telephone subscriptions (per 100 people)	4.0 18.1	3.5 72.3	4.0 87.1	
Mobile-cellular telephone subscriptions (per 100 people) Fixed-broadband subscriptions (per 100 people)		0.3	2.4	
Households with a computer (%)	 4.9	17.0	17.0	
Households with Internet access at home (%)	3.0	18.4	18.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)		8.3	8.8	
Domestic mobile traffic (minutes/subscription/month)		45.2	147.6	
Individuals using the Internet (%)	3.7	27.1	22.6	
Quality				
Population covered by a mobile-cellular network (%)	90	97	94	
International Internet bandwidth (bit/s per Internet user)	24	1,717	10,618	
Affordability				
Fixed-telephone sub-basket (\$ a month)		5.1 16.9	5.0 7.7	
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		57.0	18.6	
Trade				
ICT goods exports (% of total goods exports)	0.2		6.2	
ICT goods imports (% of total goods imports)	2.2		8.0	
ICT service exports (% of total service exports)	15.6	48.0	51.1	
Applications				
Online service index (0-1, 1=highest presence)	0.35	0.13	0.24	
Secure Internet servers (per million people)	1.8	10.2	5.9	

Sweden

	Count	Country data	
	2005	2014	group 2014
Economic and social context	2003	2014	
Population (millions)	9	10	1,399
Urban population (% of total)	84	86	81
GNI per capita, World Bank Atlas method (\$)	45,350	61,600	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.7	1.2	1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)	95	105	95
Sector structure			
Separate telecommunications/ICT regulator	Yes		
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	_		
International gateway(s)	C	C	
Mobile telephone service	C	C	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	A	А	
Sector efficiency and capacity	1.7	1.1	2.6
Telecommunications revenue (% of GDP)		1.4 18.3	2.6 16.8
Telecommunications investment (% of revenue)	17.8	10.3	10.0
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	62.4	39.7	39.9
Mobile-cellular telephone subscriptions (per 100 people)	100.8		123.3
Fixed-broadband subscriptions (per 100 people)	27.9	34.2	28.0
Households with a computer (%)	80.0		80.3
Households with Internet access at home (%)	72.5	89.6	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	90.8	164.9	188.0
Individuals using the Internet (%)	84.8		80.6
(,			
Quality Population covered by a mobile-cellular network (%)	99	100	100
International Internet bandwidth (bit/s per Internet user)		527,447	
Affordability			
Fixed-telephone sub-basket (\$ a month)		28.2	23.7
Mobile-cellular sub-basket (\$ a month)		20.5	18.7
Fixed-broadband sub-basket (\$ a month)		38.2	26.9
Trade			
ICT goods exports (% of total goods exports)	11.2	6.7	8.2
ICT goods imports (% of total goods imports)	11.1		10.5
ICT service exports (% of total service exports)	46.2	46.3	30.3
Applications			
Online service index (0-1, 1=highest presence)	0.92	0.70	0.67
Secure Internet servers (per million people)		1,602.2	928.0
		,	

Switzerland

	Country data		High- income group	
	2005	2014	2014	
Economic and social context				
Population (millions)	7	8	1,399	
Urban population (% of total)	73	74	81	
GNI per capita, World Bank Atlas method (\$)	61,550	90,670	38,317	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.3	1.7	1.1	
Adult literacy rate (% ages 15 and older)			99	
Gross primary, secondary, tertiary school enrollment (%)	85	87	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	C		
Mobile telephone service	Р	С		
Internet service	С	С		
Foreign ownership (not allowed, restricted, allowed)	Α	Α		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	Α		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	3.2	2.3	2.6	
Telecommunications investment (% of revenue)	12.6	20.0	16.8	
Sector performance				
Access Fixed telephone subscriptions (per 100 people)	69.5	53.6	39.9	
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	92.2	140.5	123.3	
Fixed-broadband subscriptions (per 100 people)	22.5	46.0	28.0	
Households with a computer (%)	76.5	87.6	80.3	
Households with Internet access at home (%)	67.0		81.0	
, ,				
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	 E7 C		100.0	
Domestic mobile traffic (minutes/subscription/month)	57.6 70.1	88.0 87.0	188.0 80.6	
Individuals using the Internet (%)	70.1	61.0	00.0	
Quality	400	100	400	
Population covered by a mobile-cellular network (%)	100	100	100	
International Internet bandwidth (bit/s per Internet user)	13,760	352,243	131,821	
Affordability				
Fixed-telephone sub-basket (\$ a month)		33.2	23.7	
Mobile-cellular sub-basket (\$ a month)		19.4	18.7	
Fixed-broadband sub-basket (\$ a month)		36.7	26.9	
Trade				
ICT goods exports (% of total goods exports)	2.6	1.5	8.2	
ICT goods imports (% of total goods imports)	7.4	5.6	10.5	
ICT service exports (% of total service exports)	19.8	25.3	30.3	
Applications				
Online service index (0-1, 1=highest presence)	0.76	0.50	0.67	
Secure Internet servers (per million people)	472.8	2,820.4	928.0	

Syrian Arab Republic

Middle East & North Africa	Lower m	wer middle i		
	0		Lower middle- income	
	Countr		group	
	2005	2014	2014	
Economic and social context Population (millions)	18	22	2,879	
Urban population (% of total)	54	57	39	
GNI per capita, World Bank Atlas method (\$)	1,530		2,012	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.7		5.9	
Adult literacy rate (% ages 15 and older)	81	86	73	
Gross primary, secondary, tertiary school enrollment (%)	70	51	67	
Sector structure		.,		
Separate telecommunications/ICT regulator	No	Yes		
Status of main fixed-line telephone operator	Public	Public		
Level of competition (competition, partial comp., monopoly) International gateway(s)	М	М		
Mobile telephone service	P	P		
Internet service	Р	M		
Foreign ownership (not allowed, restricted, allowed)	Α	R		
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) B	С		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	12.6	_ ::	2.3	
Telecommunications investment (% of revenue)	7.5	5.1	19.8	
Sector performance				
Access Fixed-telephone subscriptions (per 100 people)	16.0	18.1	4.0	
Mobile-cellular telephone subscriptions (per 100 people)	16.2	70.9	87.1	
Fixed-broadband subscriptions (per 100 people)	0.0	1.7	2.4	
Households with a computer (%)	28.0	47.6	17.0	
Households with Internet access at home (%)	26.0	40.9	18.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	13.6	13.8	8.8	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	130.2 5.6	64.6 28.1	147.6 22.6	
individuals using the internet (%)	5.0	20.1	22.0	
Quality Population covered by a mobile-cellular network (%)	92	91	94	
International Internet bandwidth (bit/s per Internet user)	333	4,048	10,618	
Affordability				
Fixed-telephone sub-basket (\$ a month)		1.3	5.0	
Mobile-cellular sub-basket (\$ a month)		21.3	7.7	
Fixed-broadband sub-basket (\$ a month)		21.6	18.6	
Trade ICT goods exports (% of total goods exports)	0.0	0.0	6.2	
ICT goods exports (% of total goods exports)	3.3	2.2	8.0	
ICT service exports (% of total service exports)	9.3	2.5	51.1	
Applications				
Online service index (0-1, 1=highest presence)	0.36	0.16	0.24	
Secure Internet servers (per million people)	0.1	0.5	5.9	

Tajikistan

	_
Europe & Central Asia	Lower middle income

			Lower middle- income
	Countr 2005	y data 2014	group 2014
Economic and social context			
Population (millions)	7	8	2,879
Urban population (% of total)	26	27	39
GNI per capita, World Bank Atlas method (\$)	320	1,080	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	10.1	6.8	5.9
Adult literacy rate (% ages 15 and older)	99	100	73
Gross primary, secondary, tertiary school enrollment (%)	69	70	67
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly)	Mixed	Public	
International gateway(s)	М	М	
Mobile telephone service	M	M	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	2.9		2.3
Telecommunications investment (% of revenue)	71.4		19.8
Sector performance			
Access	4.1	F 0	4.0
Fixed-telephone subscriptions (per 100 people)	4.1 3.9	5.2 95.1	4.0 87.1
Mobile-cellular telephone subscriptions (per 100 people)	0.1	95.1	2.4
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	1.0	9.2	17.0
Households with Internet access at home (%)	0.3	7.2	18.3
Usage Int'l. voice traffic, total (minutes/subscription/month)			8.8
Domestic mobile traffic (minutes/subscription/month)	7.3		147.6
Individuals using the Internet (%)	0.3	17.5	22.6
Quality			
Population covered by a mobile-cellular network (%)			94
International Internet bandwidth (bit/s per Internet user)	98	3,944	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		0.9	5.0
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		8.5 362.5	7.7 18.6
		502.5	10.0
Trade ICT goods exports (% of total goods exports)			6.2
ICT goods imports (% of total goods imports)			8.0
ICT service exports (% of total service exports)	19.2	48.4	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.32	0.06	0.24
Secure Internet servers (per million people)		1.4	5.9

Tanzania

Sub-Saharan Africa Low income

	Countr	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	39	52	622
Urban population (% of total)	25	31	30
GNI per capita, World Bank Atlas method (\$)	340	930	626
GDP growth, 2000–05 and 2005–14 (avg. annual %)	7.2	6.4	6.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	69	79 53	57 59
Sector structure Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Mixed	Mixed	
Level of competition (competition, partial comp., monopoly)	WIIACU	WIIACU	
International gateway(s)	М	С	
Mobile telephone service	M	C	
Internet service	M	C	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)			
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)	7.6	62.8	57.2
Fixed-broadband subscriptions (per 100 people)	0.0	0.2	0.2
Households with a computer (%)	2.1	3.8	4.5
Households with Internet access at home (%)	0.5	4.1	4.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	3.2	1.2	
Domestic mobile traffic (minutes/subscription/month)	7.1	106.1	39.8
Individuals using the Internet (%)	1.1	4.9	6.3
Quality			
Population covered by a mobile-cellular network (%)	45	95	
International Internet bandwidth (bit/s per Internet user)	234	6,081	4,196
Affordability			
Fixed-telephone sub-basket (\$ a month)		10.1	8.7
Mobile-cellular sub-basket (\$ a month)		9.4	11.7
Fixed-broadband sub-basket (\$ a month)		18.7	44.9
Trade			
ICT goods exports (% of total goods exports)	0.3	0.2	
ICT goods imports (% of total goods imports)	5.8	3.4	2.7
ICT service exports (% of total service exports)	10.1	13.0	21.5
Applications			
Online service index (0-1, 1=highest presence)	0.29	0.30	0.11
Secure Internet servers (per million people)	0.1	1.5	1.2

Thailand

East Asia & Pacific	Upper n	pper middle i		
	Count	ry data	Upper middle- income group	
	2005	2014	2014	
Economic and social context				
Population (millions)	66	68	2,361	
Urban population (% of total)	38	49	62	
GNI per capita, World Bank Atlas method (\$)	2,590	5,370	7,873	
GDP growth, 2000–05 and 2005–14 (avg. annual %)	5.5	3.0	6.0	
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	94 72	96 79	94 80	
Sector structure	Yes	Yes		
Separate telecommunications/ICT regulator Status of main fixed-line telephone operator	Public	Public		
Level of competition (competition, partial comp., monopoly)	FUDIIC	FUDIIC		
International gateway(s)	М	С		
Mobile telephone service	M	P		
Internet service	M	C		
Foreign ownership (not allowed, restricted, allowed)	R	R		
Reg. treatment of VoIP (banned, closed, no framework, allowe	d) B	Α		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	3.2	2.3	2.4	
Telecommunications investment (% of revenue)	10.0	29.5	19.7	
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 (%)	10.7 46.5 0.8 15.5	8.5 144.4 8.2 33.9	17.6 101.4 <i>11.7</i> 46.0	
Households with Internet access at home (%) Usage	7.2ª	33.8	45.3	
Int'l. voice traffic, total (minutes/subscription/month)		1.6	1.6	
Domestic mobile traffic (minutes/subscription/month)		39.2	293.4	
Individuals using the Internet (%)	15.0	34.9	47.7	
Quality				
Population covered by a mobile-cellular network (%)	26	100	99	
International Internet bandwidth (bit/s per Internet user)	691	46,826	21,253	
Affordability				
Fixed-telephone sub-basket (\$ a month)		6.2	8.9	
Mobile-cellular sub-basket (\$ a month)		5.4	12.4	
Fixed-broadband sub-basket (\$ a month)		22.5	17.3	
Trade				
ICT goods exports (% of total goods exports)	23.4	15.6	18.0	
ICT goods imports (% of total goods imports)	17.4	11.3	15.1	
ICT service exports (% of total service exports)	25.7	17.4	27.4	
Applications				
Online service index (0-1, 1=highest presence)	0.50	0.44	0.37	
Secure Internet servers (per million people)	4.7	23.3	23.3	

Timor-Leste

East Asia & Pacific	Lower n	niddle	ncome	
	Counti	v data	group	
		2014		
Economic and social context				
Population (millions)	1	1	2,879	
Urban population (% of total)	26	32	39	
GNI per capita, World Bank Atlas method (\$)	910	3,120	2,012	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.0	9.8	5.9	
Adult literacy rate (% ages 15 and older)	51	58	73	
Gross primary, secondary, tertiary school enrollment (%)		72	67	
Sector structure				
Separate telecommunications/ICT regulator	No	No		
Status of main fixed-line telephone operator	Public	Mixed		
Level of competition (competition, partial comp., monopoly)				
International gateway(s)	M	M		
Mobile telephone service	M	M		
Internet service	M No	M No		
Foreign ownership (not allowed, restricted, allowed)		INU B		
Reg. treatment of VoIP (banned, closed, no framework, allowe	u) b	ь		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.5	5.9	2	
Telecommunications investment (% of revenue)	16.9		19.	
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 (%)	0.2 3.3 0.0 	0.3 58.7 0.1 	4.0 87. 2.4 17.0 18.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	20.0		8.	
Domestic mobile traffic (minutes/subscription/month)	70.6		147.	
Individuals using the Internet (%)	0.1	1.1	22.	
Quality	50	92	9.	
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	5,071	92 17,467	10,61	
Affordability				
Fixed-telephone sub-basket (\$ a month)		19.7	5.	
Mobile-cellular sub-basket (\$ a month)		14.0	7.	
Fixed-broadband sub-basket (\$ a month)		49.0	18.	
Trade				
ICT goods exports (% of total goods exports)	5.2	11.0	6.	
ICT goods imports (% of total goods imports)	3.4	6.4	8.	
ICT service exports (% of total service exports)			51.	
Applications				
Online service index (0-1, 1=highest presence)	0.25	0.20	0.2	
Secure Internet servers (per million people)	1.0	0.8	5.	



Sub-Saharan	Africa	Low income

	Country data		Low- income group
_	2005	2014	2014
Economic and social context			
Population (millions)	6	7	622
Urban population (% of total)	35	39	30
GNI per capita, World Bank Atlas method (\$)	360	570	626
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.5	4.1	6.1
Adult literacy rate (% ages 15 and older)	57	60	57
Gross primary, secondary, tertiary school enrollment (%)	61	73	59
Sector structure	V	Vaa	
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)	Р	М	
International gateway(s)	P P		
Mobile telephone service	•	M	
Internet service	С	М	
Foreign ownership (not allowed, restricted, allowed)	R A	R A	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	Α	
Sector efficiency and capacity Telecommunications revenue (% of GDP)	6.3	8.9	
Telecommunications revenue (% of gbr) Telecommunications investment (% of revenue)	34.7	23.6	
<u> </u>			
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	1.1	0.9	0.9
Mobile-cellular telephone subscriptions (per 100 people)	7.8	69.0	57.2
Fixed-broadband subscriptions (per 100 people)	0.0	0.1	0.2
Households with a computer (%)	1.0	3.2	4.5
Households with Internet access at home (%)		3.3	4.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)	22.5	7.6	
Domestic mobile traffic (minutes/subscription/month)	22.0	29.4	39.8
Individuals using the Internet (%)	1.8	5.7	6.3
Quality	0.5	01	
Population covered by a mobile-cellular network (%)	85	91	4.400
International Internet bandwidth (bit/s per Internet user)	143	6,523	4,196
Affordability		8.4	8.7
Fixed-telephone sub-basket (\$ a month)		8.4 17.0	8.7 11.7
Mobile-cellular sub-basket (\$ a month)			
Fixed-broadband sub-basket (\$ a month)		45.1	44.9
Trade ICT goods exports (% of total goods exports)	0.1	0.0	
ICT goods exports (% of total goods exports)	3.9	1.3	2.7
ICT service exports (% of total service exports)	23.8	13.5	21.5
Applications Online service index (0-1, 1=highest presence)	0.22	0.11	0.11
Secure Internet servers (per million people)	0.4	4.2	1.2

Tonga

East Asia & Pacific	Upper n	pper middle inc	
	Counti	y data	Upper middle- income
	2005	2014	group 2014
Economic and social context			
Population (millions)	0.10	0.11	2,361
Urban population (% of total)	23	24	62
GNI per capita, World Bank Atlas method (\$)	2,500	4,290	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.2	0.8	6.0
Adult literacy rate (% ages 15 and older)	99	99	94
Gross primary, secondary, tertiary school enrollment (%)	88		80
Sector structure			
Separate telecommunications/ICT regulator	No	No	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)			
International gateway(s)	M	М	
Mobile telephone service	M	M	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	No C	A C	
Reg. treatment of VoIP (banned, closed, no framework, allowe	ed) C	· ·	
Sector efficiency and capacity			2.4
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)			19.
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	13.6	11.3	17.0
Mobile-cellular telephone subscriptions (per 100 people)	29.6	64.3	101.
Fixed-broadband subscriptions (per 100 people)	0.6	1.7	11.
Households with a computer (%)	16.0	34.0	46.0
Households with Internet access at home (%)	5.0	35.7	45.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			1.0
Domestic mobile traffic (minutes/subscription/month)			293.4
Individuals using the Internet (%)	4.9	40.0	47.
Quality			
Population covered by a mobile-cellular network (%)	70		9
International Internet bandwidth (bit/s per Internet user)	404	11,817	21,253
Affordability			
Fixed-telephone sub-basket (\$ a month)		6.4	8.
Mobile-cellular sub-basket (\$ a month)		11.0	12.
Fixed-broadband sub-basket (\$ a month)		62.3	17.
Trade			
ICT goods exports (% of total goods exports)		1.1	18.
ICT goods imports (% of total goods imports)	2.8	3.8	15.
ICT service exports (% of total service exports)	16.3	11.8	27.
Applications			
Online service index (0-1, 1=highest presence)	0.40	0.35	0.3
Secure Internet servers (per million people)	9.8	28.4	23.

Trinidad and Tobago

	Count	Country data		Country data	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	1	1	1,399		
Urban population (% of total)	10	9	81		
GNI per capita, World Bank Atlas method (\$)	11,040	15,550	38,317		
GDP growth, 2000–05 and 2005–14 (avg. annual %)	8.7	1.2	1.1		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	98 67	99	99 95		
Sector structure					
Separate telecommunications/ICT regulator	Yes	Yes			
Status of main fixed-line telephone operator	Mixed	Mixed			
Level of competition (competition, partial comp., monopoly)					
International gateway(s)	M	С			
Mobile telephone service	M	Р			
Internet service	С	С			
Foreign ownership (not allowed, restricted, allowed)	Α	Α			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No			
Sector efficiency and capacity	2.4	2.0	2.0		
Telecommunications revenue (% of GDP)	2.4	2.9	2.6 16.8		
Telecommunications investment (% of revenue)		7.1	16.8		
Sector performance Access					
Fixed-telephone subscriptions (per 100 people)	24.9	21.4	39.9		
Mobile-cellular telephone subscriptions (per 100 people)	71.3	147.3	123.3		
Fixed-broadband subscriptions (per 100 people)	0.8	17.5	28.0		
Households with a computer (%)	31.0	64.0	80.3		
Households with Internet access at home (%)	17.0	50.0	81.0		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)	27.0	19.1			
Domestic mobile traffic (minutes/subscription/month)	272.8	190.7	188.0		
Individuals using the Internet (%)	29.0	65.1	80.6		
Quality					
Population covered by a mobile-cellular network (%)	100	100	100		
International Internet bandwidth (bit/s per Internet user)	1,304	48,903	131,821		
Affordability					
Fixed-telephone sub-basket (\$ a month)		3.2	23.7		
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		15.0 12.3	18.7 26.9		
Trade					
ICT goods exports (% of total goods exports)	0.2	0.1	8.2		
ICT goods imports (% of total goods imports)	4.0	3.1	10.5		
ICT service exports (% of total service exports)	8.9	85.3	30.3		
Applications					
Online service index (0-1, 1=highest presence)	0.53	0.33	0.67		
Secure Internet servers (per million people)	21.6	111.5	928.0		

Tunisia

Middle East & North Africa	Jpper n	pper middle ir			pper middle inc	
	Count	Country data				
	2005	2014	group 2014			
Economic and social context						
Population (millions)	10	11	2,361			
Urban population (% of total)	65	67	62			
GNI per capita, World Bank Atlas method (\$)	3,190	4,210	7,873			
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.2	3.6	6.0			
Adult literacy rate (% ages 15 and older)	74	80	94			
Gross primary, secondary, tertiary school enrollment (%)		79	80			
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	P				
Mobile telephone service	С	C				
Internet service	C	C				
Foreign ownership (not allowed, restricted, allowed)	No	R				
Reg. treatment of VoIP (banned, closed, no framework, allowed) C	A				
Sector efficiency and capacity	3.8	3.7	2.4			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	21.7	24.3	19.7			
	21.1	24.3	15.1			
Sector performance						
Access Fixed-telephone subscriptions (per 100 people)	12.5	8.5	17.6			
Mobile-cellular telephone subscriptions (per 100 people)	56.5	128.5	101.4			
Fixed-broadband subscriptions (per 100 people)	0.2	4.4	11.7			
Households with a computer (%)	7.2	33.1	46.0			
Households with Internet access at home (%)	2.1	28.8	45.3			
Usage						
Int'l. voice traffic, total (minutes/subscription/month)	7.1	9.3	1.6			
Domestic mobile traffic (minutes/subscription/month)	35.5	152.2	293.4			
Individuals using the Internet (%)	9.7	46.2	47.7			
Quality						
Population covered by a mobile-cellular network (%)	98	99	99			
International Internet bandwidth (bit/s per Internet user)	773	25,972	21,253			
Affordability						
Fixed-telephone sub-basket (\$ a month)		5.2	8.9			
Mobile-cellular sub-basket (\$ a month)		5.9	12.4			
Fixed-broadband sub-basket (\$ a month)		6.1	17.3			
Trade	0.0		40.			
ICT goods exports (% of total goods exports)	2.0	5.8	18.0			
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	4.6 5.1	5.0 10.1	15.1 27.4			
Applications						
Applications Online service index (0-1, 1=highest presence)	0.35	0.64	0.37			
Secure Internet servers (per million people)	1.4	17.9	23.3			
(psion poopio)	д. Т	11.0	20.			

Turkey

Europe & Central Asia	Upper n	niddle	income
	Count	ry data	Upper middle- income
	2005	2014	group 2014
Economic and social context			
Population (millions)	68	76	2,361
Urban population (% of total)	68	73	62
GNI per capita, World Bank Atlas method (\$)	6,510	10,840	7,873
GDP growth, 2000–05 and 2005–14 (avg. annual %)	5.2	3.6	6.0
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	88 74	95 97	94 80
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) Mobile telephone service	C P	M M	
Internet service	C	C	
Foreign ownership (not allowed, restricted, allowed)	A	A	
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) No	Α	
Sector efficiency and capacity	2.6	2.1	2.4
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	11.0	19.0	2.4 19.7
Sector performance			
Access			
Fixed-telephone subscriptions (per 100 people)	28.0	16.5	17.6
Mobile-cellular telephone subscriptions (per 100 people)	64.4	94.8	101.4
Fixed-broadband subscriptions (per 100 people)	2.3	11.7	11.7
Households with Internet access at home (%)	12.0 7.7	56.0 60.2	46.0 45.3
Households with Internet access at home (%)	1.1	00.2	45.3
Usage	2.0	5.0	
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month)	3.9 68.3	5.6 209.0	1.6 293.4
Individuals using the Internet (%)	15.5	51.0	47.7
	10.0	01.0	
Quality Population covered by a mobile-cellular network (%)	96	100	99
International Internet bandwidth (bit/s per Internet user)	2,788	42,911	21,253
Affordability			
Fixed-telephone sub-basket (\$ a month)		12.0	8.9
Mobile-cellular sub-basket (\$ a month)		26.5	12.4
Fixed-broadband sub-basket (\$ a month)	••	11.5	17.3
Trade ICT goods exports (% of total goods exports)	4.4	1.5	18.0
ICT goods imports (% of total goods imports)	6.1	4.6	15.1
ICT service exports (% of total service exports)	2.2	1.2	27.4
Applications		e -	
Online service index (0-1, 1=highest presence)	0.48	0.56	0.37
Secure Internet servers (per million people)	18.1	57.3	23.3

Turkmenistan

Europe & Central Asia	Upper m	per middle ir	
	Countr	v data	Upper middle income
	2005	2014	group 2014
Economic and social context			
Population (millions)	5	5	2,363
Urban population (% of total)	47	50	62
GNI per capita, World Bank Atlas method (\$)	1,600	8,020	7,873
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.5	10.9	6.0
Adult literacy rate (% ages 15 and older)		100	94
Gross primary, secondary, tertiary school enrollment (%)		61	80
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	M	
Mobile telephone service	M	M	
Internet service	M	M	
Foreign ownership (not allowed, restricted, allowed)	No	No	
Reg. treatment of VoIP (banned, closed, no framework, allow	ed) B	В	
Sector efficiency and capacity	4.5		
Telecommunications revenue (% of GDP)	1.5		2
Telecommunications investment (% of revenue)			19.1
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	8.4	11.8	17.
Mobile-cellular telephone subscriptions (per 100 people)	2.2	135.8	101.
Fixed-broadband subscriptions (per 100 people)		0.0	101.
	1.9		46.
Households with a computer (%) Households with Internet access at home (%)	0.9		45.
nousenoids with internet access at nome (%)	0.9		40.
Usage Int'l. voice traffic, total (minutes/subscription/month)			1.
Domestic mobile traffic (minutes/subscription/month)			293.
Individuals using the Internet (%)	1.0	12.2	47.
individuals using the internet (%)	1.0	12.2	41.
Quality Population covered by a mobile-cellular network (%)	14		9:
International Internet bandwidth (bit/s per Internet user)	1,605	1,746	21,25
Affordability			
Fixed-telephone sub-basket (\$ a month)			8.
Mobile-cellular sub-basket (\$ a month)			12.
Fixed-broadband sub-basket (\$ a month)			17.
Trade			
ICT goods exports (% of total goods exports)			18.0
ICT goods imports (% of total goods imports)			15.
ICT service exports (% of total service exports)			27.
Applications			
Online service index (0-1, 1=highest presence)	0.33	0.09	0.3
Secure Internet servers (per million people)		0.4	23.

Turks and Caicos Islands

Urban population (% of total) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (SN) per capita, World Bank Atlas method (\$) SN (Status of main fixed-line telephone operator public		Country data		High- income
Population (millions)	-	2005	2014	
Urban population (% of total) RNI per capita, World Bank Atlas method (\$) RNI per capita, World Bank Atlas method (\$) ROP growth, 2000–05 and 2005–14 (avg. annual %) Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications partial comp., monopoly International gateway(s) Mobile telephone service Internet se	Economic and social context			
GNI per capita, World Bank Atlas method (\$)	Population (millions)	0.03	0.03	1,399
GDP growth, 2000-05 and 2005-14 (avg. annual %)	Urban population (% of total)	88	92	81
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%) Sector structure Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Mobile telephone Mobil				38,317
Sector structure Separate telecommunications/ICT regulator Sector structure Separate telecommunications/ICT regulator Separate telecommunications/ICT regulator Separate telecommunications partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Mobile telephone subscriptions (per 100 people) Mobile telephone subscriptions (per 100 people) Mobile cellular telephone subscription (per 100 people) Mobile cellular telephone subscription (per 100 people) Mobile cellular subscription (per 100 people) Mobile cellu				1.1
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 M M M Internet service M M M Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) B Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with Internet access at home (%) Sage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Capacity Capacity Affordability Fixed-telephone sub-basket (\$ a month) Capacity Capacity Capacity Affordability Fixed-broadband sub-basket (\$ a month) Capacity Capacity Affordability Capacity Capacity Affordability Capacity C				99
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 Mobile telephone service Internet service Mobile telephone service (% of GDP) Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Mobile traffic (minutes/subscription/month) Mobile traffic (minutes/subscription/month) Mobile-cellular sub-basket (% a month) Mobile-cellular sub-basket (\$ a month) Mobile-cellular	Gross primary, secondary, tertiary school enrollment (%)			95
Status of main fixed-line telephone operator Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Internet service Mobile telephone subscriptions (por 100 people) Mobile telephone subscriptions (per 100 people) Mobile telephone				
Level of competition (competition, partial comp., monopoly) International gateway(s) Mobile telephone service Mobile telephone subscriptions (per 100 people) Mobile tellular telephone subscriptions (per 100 people) Mobile traffic, total (minutes/subscription/month) Mobile traffic, total (minutes/subscription/month) Mobile traffic (minutes/subscription/mon				
International gateway(s) Mobile telephone service Internet service Intern		Public	Public	
Mobile telephone service Internet service M M M M Foreign ownership (not allowed, restricted, allowed) No No Reg. treatment of VoIP (banned, closed, no framework, allowed) B B S Sector efficiency and capacity Telecommunications revenue (% of GDP)				
Internet service Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Reg. treatment of VoIP (banned, closed, no for to last general treatment, allowed) Releasement of Closed, no framework, allowed) Releasement of Closed, no for to last general treatment, allowed, allowed, closed, no for to last general treatment, allowed, closed, no for treatment, allowed, closed, no for to last general tr	3 ,,,			
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Households with liternet access at home (%) Susage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total service exports) Sector efficiency and capacity 2.6.6 3.0 10.1				
Reg. treatment of VoIP (banned, closed, no framework, allowed) Sector efficiency and capacity Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue) Sector performance Access Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people) Households with a computer (%) Balance Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total service exports) L2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2				
Sector efficiency and capacity Telecommunications revenue (% of GDP)	•			
Telecommunications revenue (% of GDP)	Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	В	
Telecommunications investment (% of revenue)				0.0
Sector performance Access Fixed-telephone subscriptions (per 100 people)	• • •			
Access Fixed-telephone subscriptions (per 100 people)	lelecommunications investment (% of revenue)	••	••	16.8
Fixed-telephone subscriptions (per 100 people)	•			
Mobile-cellular telephone subscriptions (per 100 people)				20.0
Fixed-broadband subscriptions (per 100 people) 28.0 Households with a computer (%) 80.3 Households with Internet access at home (%) 81.0 Usage Int'l. voice traffic, total (minutes/subscription/month)				
Households with a computer (%)		••		
Households with Internet access at home (%)				
Usage Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total service exports) ICT service exports (% of total service exports)				
Int'l. voice traffic, total (minutes/subscription/month) Domestic mobile traffic (minutes/subscription/month) Italian (minutes/subscription/mont	nousenoids with internet access at notine (%)			01.0
Domestic mobile traffic (minutes/subscription/month) 188.6 Individuals using the Internet (%) 80.6 Quality Population covered by a mobile-cellular network (%) 100 International Internet bandwidth (bit/s per Internet user) 131,822 Affordability Fixed-telephone sub-basket (\$ a month) 23.1 Mobile-cellular sub-basket (\$ a month) 18.6 Fixed-broadband sub-basket (\$ a month) 26.9 Trade ICT goods exports (% of total goods exports) 4.0 1.9 8.2 ICT goods imports (% of total goods imports) 4.6 3.0 10.9 ICT service exports (% of total service exports) 30.3				
Individuals using the Internet (%) Quality Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user) Affordability Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month) Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total service exports) ICT service exports (% of total service exports)				
Quality Population covered by a mobile-cellular network (%)				
Population covered by a mobile-cellular network (%)	Individuals using the Internet (%)	••		80.6
International Internet bandwidth (bit/s per Internet user) 131,82: Affordability Fixed-telephone sub-basket (\$ a month) 23 Mobile-cellular sub-basket (\$ a month) 18. Fixed-broadband sub-basket (\$ a month) 26.9 Trade ICT goods exports (% of total goods exports) 4.0 1.9 8.2 ICT goods imports (% of total goods imports) 4.6 3.0 10.9 ICT service exports (% of total service exports) 30.3	Quality			
Affordability Fixed-telephone sub-basket (\$ a month)	· · · · · · · · · · · · · · · · · · ·			100
Fixed-telephone sub-basket (\$ a month) 23.3 Mobile-cellular sub-basket (\$ a month) 18.1 Fixed-broadband sub-basket (\$ a month) 26.9 Trade ICT goods exports (% of total goods exports) 4.0 1.9 8.2 ICT goods imports (% of total goods imports) 4.6 3.0 10.5 ICT service exports (% of total service exports) 30.3	International Internet bandwidth (bit/s per Internet user)			131,821
Mobile-cellular sub-basket (\$ a month) 18.1 Fixed-broadband sub-basket (\$ a month) 26.5 Trade ICT goods exports (% of total goods exports) 4.0 1.9 8.2 ICT goods imports (% of total goods imports) 4.6 3.0 10.5 ICT service exports (% of total service exports) 30.3	Affordability			
Fixed-broadband sub-basket (\$ a month)				23.7
Trade ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports) ICT service exports (% of total service exports) 4.0 4.0 1.9 8.2 10.1 30.3	Mobile-cellular sub-basket (\$ a month)			18.7
ICT goods exports (% of total goods exports) 4.0 1.9 8.2 ICT goods imports (% of total goods imports) 4.6 3.0 10.5 ICT service exports (% of total service exports) 30.3	Fixed-broadband sub-basket (\$ a month)	••		26.9
ICT goods imports (% of total goods imports) 4.6 3.0 10.5 ICT service exports (% of total service exports) 30.3	Trade			
ICT service exports (% of total service exports) 30.3	ICT goods exports (% of total goods exports)	4.0	1.9	8.2
	ICT goods imports (% of total goods imports)	4.6	3.0	10.5
Applications	ICT service exports (% of total service exports)			30.3
Applications	Applications			
				0.67
Secure Internet servers (per million people) 266.7 928.0	Secure Internet servers (per million people)		266.7	928.0

Tuvalu

East Asia & Pacific	Upper m	Ipper middle inc		
	Countr	Country data		
	2005	2014	group 2014	
Economic and social context				
Population (millions)	0.01	0.01	2,361	
Urban population (% of total)	50	59	62	
GNI per capita, World Bank Atlas method (\$)	3,740	5,840	7,873	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	0.2	2.1	6.0	
Adult literacy rate (% ages 15 and older)			94	
Gross primary, secondary, tertiary school enrollment (%)			80	
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	M		
Mobile telephone service	M	M		
Internet service	M	M		
Foreign ownership (not allowed, restricted, allowed)	R	R		
Reg. treatment of VoIP (banned, closed, no framework, allowe	d) B	В		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)			2.4	
Telecommunications investment (% of revenue)			19.7	
Sector performance				
Access	0.0	45.0	47.0	
Fixed-telephone subscriptions (per 100 people)	9.2	15.2	17.6	
Mobile-cellular telephone subscriptions (per 100 people)	13.4	38.4	101.4	
Fixed-broadband subscriptions (per 100 people)	1.5	7.1	11.7	
Households with a computer (%)		23.4	46.0	
Households with Internet access at home (%)		19.7	45.3	
Usage Int'l. voice traffic, total (minutes/subscription/month)			1.6	
Domestic mobile traffic (minutes/subscription/month)	2.9		293.4	
Individuals using the Internet (%)	10.0	37.0	47.	
individuals using the internet (%)	10.0	37.0	41.	
Quality Population covered by a mobile-cellular network (%)	13		99	
International Internet bandwidth (bit/s per Internet user)	3,073	1,159	21,253	
Affordability				
Fixed-telephone sub-basket (\$ a month)			8.9	
Mobile-cellular sub-basket (\$ a month)			12.4	
Fixed-broadband sub-basket (\$ a month)			17.3	
Trade				
ICT goods exports (% of total goods exports)	7.3		18.0	
ICT goods imports (% of total goods imports)	6.1		15.1	
ICT service exports (% of total service exports)	19.0	10.7	27.4	
Applications				
Online service index (0-1, 1=highest presence)	0.00	0.04	0.37	
Secure Internet servers (per million people)			23.3	

Uganda

Sub-Saharan Africa Low income

	Countr	Country data		Country data	
-	2005	2014	group 2014		
Economic and social context					
Population (millions)	28	38	622		
Urban population (% of total)	13	16	30		
GNI per capita, World Bank Atlas method (\$)	300	680	626		
GDP growth, 2000–05 and 2005–14 (avg. annual %)	6.9	6.9	6.1		
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	71 64	70 61	57 59		
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	M			
Mobile telephone service	Р	M			
Internet service	С	M			
Foreign ownership (not allowed, restricted, allowed)	Α	Α			
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.2	3.2			
Telecommunications investment (% of revenue)	23.4	32.6			
Sector performance					
Access	0.0	0.0	0.0		
Fixed-telephone subscriptions (per 100 people)	0.3	0.8	0.9		
Mobile-cellular telephone subscriptions (per 100 people)	4.6 0.0	52.4 0.3	57.2 0.2		
Fixed-broadband subscriptions (per 100 people)	0.0	5.8	4.5		
Households with a computer (%) Households with Internet access at home (%)	0.8	6.2	4.3		
Usage					
Int'l. voice traffic, total (minutes/subscription/month)					
Domestic mobile traffic (minutes/subscription/month)	119.4	61.3	39.8		
Individuals using the Internet (%)	1.7	17.7	6.3		
Quality					
Population covered by a mobile-cellular network (%)	70	100			
International Internet bandwidth (bit/s per Internet user)	121	4,002	4,196		
Affordability		9.0	0.7		
Fixed-telephone sub-basket (\$ a month)	••	9.0	8.7 11.7		
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		9.4 13.7	44.9		
Trade					
ICT goods exports (% of total goods exports)	2.0	2.3			
ICT goods imports (% of total goods imports)	7.5	5.4	2.7		
ICT service exports (% of total service exports)	13.4	17.3	21.5		
Applications	0.24	0.15	0.44		
Online service index (0-1, 1=highest presence)	0.31	0.15	0.11		
Secure Internet servers (per million people)	0.0	1.6	1.2		

Ukraine

Europe & Central Asia	Lower n	ower middle in	
	Count	ry data	Lower middle- income group
	2005	2014	2014
Economic and social context			
Population (millions)	47	45	2,879
Urban population (% of total)	68	69	39
GNI per capita, World Bank Atlas method (\$)	1,540	3,560	2,012
GDP growth, 2000-05 and 2005-14 (avg. annual %)	8.0	0.1	5.9
Adult literacy rate (% ages 15 and older)	99	100	73
Gross primary, secondary, tertiary school enrollment (%)	88	95	67
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)	M	M	
Mobile telephone service	M M	M M	
Internet service Foreign ownership (not allowed, restricted, allowed)	No	No.	
Reg. treatment of VoIP (banned, closed, no framework, allowed)		A	
	- 140		
Sector efficiency and capacity	F 0	2.2	0.1
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	5.9 32.8	3.3 14.4	2.3 19.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	24.8	24.6	4.0
Mobile-cellular telephone subscriptions (per 100 people)	63.7	144.1	87.3
Fixed-broadband subscriptions (per 100 people)	0.3	8.4	2.4
Households with a computer (%)	11.5	52.4	17.0
Households with Internet access at home (%)	3.0	43.0	18.3
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			8.8
Domestic mobile traffic (minutes/subscription/month)			147.6
Individuals using the Internet (%)	3.7	43.4	22.6
Quality			
Population covered by a mobile-cellular network (%)	96	100	94
International Internet bandwidth (bit/s per Internet user)	461	40,704	10,618
Affordability			
Fixed-telephone sub-basket (\$ a month)		4.4	5.0
Mobile-cellular sub-basket (\$ a month)		7.2	7.
Fixed-broadband sub-basket (\$ a month)		6.3	18.6
Trade			
ICT goods exports (% of total goods exports)	0.5	0.9	6.2
ICT goods imports (% of total goods imports)	4.0	3.8	8.0
ICT service exports (% of total service exports)	7.6	30.7	51.1
Applications			
Online service index (0-1, 1=highest presence)	0.57	0.27	0.24
Secure Internet servers (per million people)	1.3	45.5	5.9

United Arab Emirates

	Count	ry data	High- income group
	2005	2014	2014
Economic and social context			
Population (millions)	4	9	1,399
Urban population (% of total)	82	85	81
GNI per capita, World Bank Atlas method (\$)	38,390	45,200	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.8	2.7	1.1
Adult literacy rate (% ages 15 and older)	90		99
Gross primary, secondary, 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)	Р	Р	
Mobile telephone service	Р	Р	
Internet service	Р	Р	
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)	1.9	2.2	2.6
Telecommunications investment (% of revenue)	9.8	36.2	16.8
Sector performance			
Access	29.8	22.3	39.9
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	109.3	178.1	123.3
Fixed-broadband subscriptions (per 100 people)	3.1	11.5	28.0
Households with a computer (%)	36.5	87.9	80.3
Households with Internet access at home (%)	30.4	90.1	81.0
,			
Usage		45.0	
Int'l. voice traffic, total (minutes/subscription/month)		45.6	
Domestic mobile traffic (minutes/subscription/month)	40.0	98.6	188.0
Individuals using the Internet (%)	40.0	90.4	80.6
Quality			
Population covered by a mobile-cellular network (%)	100	100	100
International Internet bandwidth (bit/s per Internet user)	3,082	44,503	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		10.6	23.7
Mobile-cellular sub-basket (\$ a month)		9.1	18.7
Fixed-broadband sub-basket (\$ a month)		54.2	26.9
Trade			
ICT goods exports (% of total goods exports)	4.3		8.2
ICT goods imports (% of total goods imports)	8.1		10.5
ICT service exports (% of total service exports)			30.3
Applications			
Applications Online service index (0-1, 1=highest presence)	0.63	0.88	0.67
Secure Internet servers (per million people)	49.8	294.4	928.0
	.0.0	_,	- 20.0

United Kingdom

	Count	ry data	High- income
	2005	2014	group 2014
Economic and social context Population (millions)	60	65	1,399
Urban population (% of total)	80	82	81
GNI per capita, World Bank Atlas method (\$)	41,010	42,690	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	3.0	0.6	1.1
Adult literacy rate (% ages 15 and older)			99
Gross primary, secondary, tertiary school enrollment (%)	92	102	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)	M	M	
Mobile telephone service	С	С	
Internet service	С	С	
Foreign ownership (not allowed, restricted, allowed)	Α	Α	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	А	Α	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.5	1.8	2.6
Telecommunications investment (% of revenue)		12.7	16.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	56.5	52.4	39.9
Mobile-cellular telephone subscriptions (per 100 people)	108.6	123.6	123.3
Fixed-broadband subscriptions (per 100 people)	16.4	37.4	28.0
Households with a computer (%)	70.0	90.8	80.3
Households with Internet access at home (%)	60.2	89.9	81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)	87.6	142.1	188.0
Individuals using the Internet (%)	70.0	91.6	80.6
Quality			
Population covered by a mobile-cellular network (%)	99	100	100
International Internet bandwidth (bit/s per Internet user)	52,831	429,830	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		32.8	23.7
Mobile-cellular sub-basket (\$ a month)		42.6	18.7
Fixed-broadband sub-basket (\$ a month)		15.6	26.9
Trade			
ICT goods exports (% of total goods exports)	13.5	3.8	8.2
ICT goods imports (% of total goods imports)	12.9	7.9	10.5
ICT service exports (% of total service exports)	30.4	34.0	30.3
Applications			
Online service index (0-1, 1=highest presence)	0.79	0.90	0.67
Secure Internet servers (per million people)	464.7	1,291.2	928.0
VI - P - P - 7			_

United States

	Count	Country data		Country data		Country data		Country data	High- income group
	2005	2014	2014						
Economic and social context									
Population (millions)	296	319	1,399						
Urban population (% of total)	80	81	81						
GNI per capita, World Bank Atlas method (\$)	46,340	55,200	38,317						
GDP growth, 2000-05 and 2005-14 (avg. annual %)	2.6	1.1	1.1						
Adult literacy rate (% ages 15 and older)			99						
Gross primary, secondary, tertiary school enrollment (%)	93	95	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)	M	С							
Mobile telephone service	M	С							
Internet service	M	С							
Foreign ownership (not allowed, restricted, allowed)	Α	Α							
Reg. treatment of VoIP (banned, closed, no framework, allowed)) A	Α							
Sector efficiency and capacity									
Telecommunications revenue (% of GDP)	2.9	3.5	2.6						
Telecommunications investment (% of revenue)	18.7	14.4	16.8						
Sector performance Access	58.7	40.1	39.9						
Fixed-telephone subscriptions (per 100 people)		98.4	123.3						
Mobile-cellular telephone subscriptions (per 100 people)	68.3		28.0						
Fixed-broadband subscriptions (per 100 people) Households with a computer (%)	17.2 67.1	30.4 81.5	80.3						
Households with Internet access at home (%)	58.1	79.6	81.0						
nouseholds with internet access at notife (%)	36.1	19.0	01.0						
Usage									
Int'l. voice traffic, total (minutes/subscription/month)	20.1	18.5							
Domestic mobile traffic (minutes/subscription/month)		386.1	188.0						
Individuals using the Internet (%)	68.0	87.4	80.6						
Quality									
Population covered by a mobile-cellular network (%)	99	100	100						
International Internet bandwidth (bit/s per Internet user)	7,185	70,970	131,821						
Affordability									
Fixed-telephone sub-basket (\$ a month)		21.2	23.7						
Mobile-cellular sub-basket (\$ a month)		35.6	18.7						
Fixed-broadband sub-basket (\$ a month)		32.7	26.9						
Trade									
ICT goods exports (% of total goods exports)	14.3	8.9	8.2						
ICT goods imports (% of total goods imports)	13.7	13.0	10.5						
ICT service exports (% of total service exports)	19.8	23.3	30.3						
Applications									
Applications Online service index (0-1, 1=highest presence)	0.86	0.94	0.67						
Secure Internet servers (per million people)	785.2		928.0						
oceare internet servers (her million heable)	100.2	1,540.2	320.0						

Uruguay

	Country data		High- income
	2005	2014	group 2014
Economic and social context			
Population (millions)	3	3	1,399
Urban population (% of total)	93	95	81
GNI per capita, World Bank Atlas method (\$)	4,720	16,350	38,317
GDP growth, 2000-05 and 2005-14 (avg. annual %)	-0.0	5.4	1.1
Adult literacy rate (% ages 15 and older)	98	98	99
Gross primary, secondary, tertiary school enrollment (%)	90	90	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)	М	М	
Mobile telephone service	М	М	
Internet service	М	М	
Foreign ownership (not allowed, restricted, allowed)	Α	No	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	No	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP)	3.8	2.5	2.6
Telecommunications investment (% of revenue)	8.0	9.7	16.8
Sector performance			
Access Fixed-telephone subscriptions (per 100 people)	30.3	31.7	39.9
Mobile-cellular telephone subscriptions (per 100 people)	34.7	160.8	123.3
Fixed-broadband subscriptions (per 100 people)	1.5	24.6	28.0
Households with a computer (%)	22.1	67.4	80.3
Households with Internet access at home (%)	13.5a		81.0
Households with internet access at home (%)	13.5-	31.4	61.0
Usage	0.0	F 1	
Int'l. voice traffic, total (minutes/subscription/month)	8.9	5.1 96.5	188.0
Domestic mobile traffic (minutes/subscription/month)	28.1		
Individuals using the Internet (%)	20.1	61.5	80.6
Quality	400	400	400
Population covered by a mobile-cellular network (%)	100	100	100
International Internet bandwidth (bit/s per Internet user)	2,395	60,807	131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)		11.3	23.7
Mobile-cellular sub-basket (\$ a month)		21.1	18.7
Fixed-broadband sub-basket (\$ a month)		14.1	26.9
Trade			
ICT goods exports (% of total goods exports)	0.1	0.1	8.2
ICT goods imports (% of total goods imports)	6.3	6.1	10.5
ICT service exports (% of total service exports)	11.6	22.2	30.3
Applications			
Online service index (0-1, 1=highest presence)	0.56	0.85	0.67
Secure Internet servers (per million people)	27.1	95.3	928.0

Uzbekistan

Europe & Central Asia L	ower n	niddle	income	
			Lower middle	
	Counti	ry data	income group	
	2005	2014	2014	
Economic and social context				
Population (millions)	26	31	2,879	
Urban population (% of total)	37	36	39	
GNI per capita, World Bank Atlas method (\$)	530	2,090	2,012	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	5.3	8.5	5.9	
Adult literacy rate (% ages 15 and older)	99	100	73	
Gross primary, secondary, tertiary school enrollment (%)	75	70	67	
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	M		
Mobile telephone service	M	M		
Internet service	M	M		
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)	2.2	2.9	2.3	
Telecommunications investment (% of revenue)	31.7	17.3	19.8	
Sector performance				
Access	0.0			
Fixed-telephone subscriptions (per 100 people)	6.9	8.6	4.0	
Mobile-cellular telephone subscriptions (per 100 people)	2.8	73.8	87.1	
Fixed-broadband subscriptions (per 100 people)	0.0	1.1	2.4	
Households with a computer (%)	1.0	10.6	17.0	
Households with Internet access at home (%)	0.9	10.5	18.3	
Usage		00.4		
Int'l. voice traffic, total (minutes/subscription/month)		22.1	8.8	
Domestic mobile traffic (minutes/subscription/month)			147.6	
Individuals using the Internet (%)	3.3	43.6	22.6	
Quality	75	00	0	
Population covered by a mobile-cellular network (%)	75 104	92	10.01	
International Internet bandwidth (bit/s per Internet user)	164	1,291	10,618	
Affordability		1.0	F .	
Fixed-telephone sub-basket (\$ a month)		1.0	5.0	
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		2.9 8.1	7.1 18.6	
. Mod 51500500.10 out busines (# a month)		0.1	10.0	
Trade				
ICT goods exports (% of total goods exports)			6.2	
ICT goods imports (% of total goods imports)			8.0	
ICT service exports (% of total service exports)	••		51.1	
Applications				
Online service index (0-1, 1=highest presence)	0.41	0.45	0.24	
O		4 7		

5.9

0.0

1.7

Secure Internet servers (per million people)

Vanuatu

East Asia & Pacific L	ower m	income			
	Countr	Country data		Lo mic inc Country data	
	2005	2014	group 2014		
Economic and social context					
Population (millions)	0.21	0.26	2,879		
Urban population (% of total)	23	26	39		
GNI per capita, World Bank Atlas method (\$)	1,780	3,090	2,012		
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.0	3.5	5.9		
Adult literacy rate (% ages 15 and older)	78	84	73		
Gross primary, secondary, tertiary school enrollment (%)	64		67		
Sector structure					
Separate telecommunications/ICT regulator	No	Yes			
Status of main fixed-line telephone operator	Mixed	Private			
Level of competition (competition, partial comp., monopoly)		0			
International gateway(s)	M	C			
Mobile telephone service Internet service	M M	C			
Foreign ownership (not allowed, restricted, allowed)	No	A			
Reg. treatment of VoIP (banned, closed, no framework, allowed)		No			
Sector efficiency and capacity Telecommunications revenue (% of GDP)	3.5	4.8	2.3		
Telecommunications revenue (% of revenue)	20.0	24.6			
Sector performance					
Access					
Fixed-telephone subscriptions (per 100 people)	3.3	2.2	4.0		
Mobile-cellular telephone subscriptions (per 100 people)	6.1	60.4	87.1		
Fixed-broadband subscriptions (per 100 people)	0.0 4.0	1.8 22.0	2.4 17.0		
Households with a computer (%) Households with Internet access at home (%)	4.0	28.8	18.3		
Unare					
Usage Int'l. voice traffic, total (minutes/subscription/month)			8.8		
Domestic mobile traffic (minutes/subscription/month)		99.1	147.6		
Individuals using the Internet (%)	5.1	18.8	22.6		
•					
Quality	20	93	94		
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	376	2,471	-		
monatoria monot sanaman (siyo por monot door)	0.0	2,2	10,010		
Affordability Fixed talanhana sub-basket (\$ a month)		41.7	5.0		
Fixed-telephone sub-basket (\$ a month) Mobile-cellular sub-basket (\$ a month)		25.9	5.0 7.7		
Fixed-broadband sub-basket (\$ a month)		108.5	18.6		
▼					
Trade	0.2	0.0	6.2		
ICT goods exports (% of total goods exports) ICT goods imports (% of total goods imports)	2.8	3.1	6.2 8.0		
ICT service exports (% of total service exports)	6.5	2.0	51.1		
Applications Online service index (0-1, 1=highest presence)	0.25	0.08	0.24		
Secure Internet servers (per million people)	133.7	27.0	5.9		

Venezuela, RB

	Country data		High- income group	
-	2005	2014	2014	
Economic and social context				
Population (millions)	27	31	1,399	
Urban population (% of total)	89	89	81	
GNI per capita, World Bank Atlas method (\$)	4,920	12,890	38,317	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	1.5	2.5	1.1	
Adult literacy rate (% ages 15 and older)	95	95	99	
Gross primary, secondary, tertiary school enrollment (%)	76		95	
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)	С	M		
Mobile telephone service	С	M		
Internet service	С	M		
Foreign ownership (not allowed, restricted, allowed)	Α	Α		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	No	С		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	3.5	3.0	2.6	
Telecommunications investment (% of revenue)	27.5	15.7	16.8	
Sector performance Access				
Fixed-telephone subscriptions (per 100 people)	13.7	25.3	39.9	
Mobile-cellular telephone subscriptions (per 100 people)	46.8	99.0	123.3	
Fixed-broadband subscriptions (per 100 people)	1.3	7.8	28.0	
Households with a computer (%)	10.3	43.7	80.3	
Households with Internet access at home (%)	2.5	34.2	81.0	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)	6.3			
Domestic mobile traffic (minutes/subscription/month)	91.6	112.0	188.0	
Individuals using the Internet (%)	12.6	57.0	80.6	
Quality Population covered by a mobile-cellular network (%)	90		100	
International Internet bandwidth (bit/s per Internet user)	399	14,398	131,821	
Affordability				
Fixed-telephone sub-basket (\$ a month)		1.2	23.7	
Mobile-cellular sub-basket (\$ a month)		10.6	18.7	
Fixed-broadband sub-basket (\$ a month)		10.9	26.9	
Trade				
ICT goods exports (% of total goods exports)	0.0	0.0	8.2	
ICT goods imports (% of total goods imports)	11.9	4.2	10.5	
ICT service exports (% of total service exports)	13.8	13.4	30.3	
Anniinationa				
Applications Online service index (0-1, 1=highest presence)	0.51	0.55	0.67	
Secure Internet servers (per million people)	4.6	12.2	928.0	
coours internet servers (per minion people)	4.0	12.2	520.0	

Vietnam

East Asia & Pacific Lower middle in							
	Count	Country data		ı Country data			
	2005	2014	group 2014				
Economic and social context							
Population (millions)	82	91	2,879				
Urban population (% of total)	27	33	39				
GNI per capita, World Bank Atlas method (\$)	680	1,890	2,012				
GDP growth, 2000–05 and 2005–14 (avg. annual %)	6.9	6.0	5.9				
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	90		73 67				
Sector structure							
Separate telecommunications/ICT regulator	No	Yes					
Status of main fixed-line telephone operator	Public	Public					
Level of competition (competition, partial comp., monopoly)							
International gateway(s)	С	С					
Mobile telephone service	C	C					
Internet service	C	C					
Foreign ownership (not allowed, restricted, allowed)	No No	R					
Reg. treatment of VoIP (banned, closed, no framework, allowed	d) C	A					
Sector efficiency and capacity Telecommunications revenue (% of GDP)	4.3		2.3				
Telecommunications investment (% of revenue)	4.5		19.8				
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 (%)	10.0 11.3 0.2 6.3 1.5	6.0 147.1 6.5 20.5 18.6	4.0 87.1 2.4 17.0 18.3				
Usage							
Int'l. voice traffic, total (minutes/subscription/month)			8.8				
Domestic mobile traffic (minutes/subscription/month)			147.6				
Individuals using the Internet (%)	12.7	48.3	22.6				
Quality Parulation payared by a mabile callular naturals (%)	70		94				
Population covered by a mobile-cellular network (%) International Internet bandwidth (bit/s per Internet user)	334	20,749					
Affordability							
Fixed-telephone sub-basket (\$ a month)		1.8	5.0				
Mobile-cellular sub-basket (\$ a month)		3.6	7.7				
Fixed-broadband sub-basket (\$ a month)		2.9	18.6				
Trade							
ICT goods exports (% of total goods exports)	2.8	24.5	6.2				
ICT goods imports (% of total goods imports)	6.1	19.9	8.0				
ICT service exports (% of total service exports)			51.1				
Applications	0.40	0.40	0.01				
Online service index (0-1, 1=highest presence)	0.46	0.42	0.24				
Secure Internet servers (per million people)	0.1	11.9	5.9				

Virgin Islands (U.S.)

	Countr	Country data	
	2005	2014	group 2014
Economic and social context			
Population (millions)	0.11	0.10	1,399
Urban population (% of total)	94	95	81
GNI per capita, World Bank Atlas method (\$)			38,317
GDP growth, 2000–05 and 2005–14 (avg. annual %)			1.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)			99 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	M	
Mobile telephone service	M M	M M	
Internet service 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)			2.6
Telecommunications investment (% of revenue)			16.8
Sector performance Access			
Fixed-telephone subscriptions (per 100 people)	66.5	71.3	39.9
Mobile-cellular telephone subscriptions (per 100 people)	74.5		123.3
Fixed-broadband subscriptions (per 100 people)	2.8		28.0
Households with a computer (%)			80.3
Households with Internet access at home (%)			81.0
Usage			
Int'l. voice traffic, total (minutes/subscription/month)			
Domestic mobile traffic (minutes/subscription/month)			188.0
Individuals using the Internet (%)	27.3	50.1	80.6
Quality Population covered by a mobile-cellular network (%)			100
International Internet bandwidth (bit/s per Internet user)	1,527		131,821
Affordability			
Fixed-telephone sub-basket (\$ a month)			23.7
Mobile-cellular sub-basket (\$ a month)			18.7
Fixed-broadband sub-basket (\$ a month)			26.9
Trade			_
ICT goods exports (% of total goods exports)			8.2
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)			10.5 30.3
Applications Online service index (0-1, 1=highest presence)			0.67
Secure Internet servers (per million people)	213.2	422.4	928.0

West Bank and Gaza

Middle East & North Africa	Lower n	ower middle inc		
	Count	Country data		
	2005			
Economic and social context			2014	
Population (millions)	3	4	2,879	
Urban population (% of total)	73	75	39	
GNI per capita, World Bank Atlas method (\$)	1,660	3.060	2,012	
GDP growth, 2000–05 and 2005–14 (avg. annual %)	4.5	3.9	5.9	
Adult literacy rate (% ages 15 and older)	93	96	73	
Gross primary, secondary, tertiary school enrollment (%)	79	76	67	
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	M		
Mobile telephone service	M	M		
Internet service	M	M		
Foreign ownership (not allowed, restricted, allowed)	No	No		
Reg. treatment of VoIP (banned, closed, no framework, allowed)	ed) No	А		
Sector efficiency and capacity	0.7		0.1	
Telecommunications revenue (% of GDP)	0.7		2.3	
Telecommunications investment (% of revenue)	5.1		19.8	
Sector performance				
Access	9.5	9.1	4.0	
Fixed-telephone subscriptions (per 100 people)	15.9	72.1	87.:	
Mobile-cellular telephone subscriptions (per 100 people)		5.3	81 2.	
Fixed-broadband subscriptions (per 100 people)	0.2			
Households with a computer (%) Households with Internet access at home (%)	29.5 15.9	63.1 48.3	17.0 18.3	
Usage				
Int'l. voice traffic, total (minutes/subscription/month)			8.8	
Domestic mobile traffic (minutes/subscription/month)			147.0	
Individuals using the Internet (%)	16.0	53.7	22.	
Quality				
Population covered by a mobile-cellular network (%)	95		94	
International Internet bandwidth (bit/s per Internet user)	421	14,700	10,61	
Affordability				
Fixed-telephone sub-basket (\$ a month)			5.	
Mobile-cellular sub-basket (\$ a month)			7.	
Fixed-broadband sub-basket (\$ a month)			18.	
Trade				
ICT goods exports (% of total goods exports)	0.5	0.6	6.2	
ICT goods imports (% of total goods imports)	2.3	2.6	8.0	
ICT service exports (% of total service exports)	27.7	18.2	51.3	
Applications				
Online service index (0-1, 1=highest presence)			0.2	
Secure Internet servers (per million people)	0.6	5.1	5.9	

Vomon

	Yeillell, Kep.
Middle East & North Africa	Lower middle income

Middle Last & North Amea	.owei ii	Low		
	Counti	Country data		
	2005	2014	group 2014	
Economic and social context				
Population (millions)	21	26	2,879	
Urban population (% of total)	29	34	39	
GNI per capita, World Bank Atlas method (\$)	690	1,300	2,012	
GDP growth, 2000-05 and 2005-14 (avg. annual %)	4.1	0.5	5.9	
Adult literacy rate (% ages 15 and older)	54	68	73	
Gross primary, secondary, tertiary school enrollment (%)	56	56	67	
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	M		
Mobile telephone service	M	M		
Internet service	M	M		
Foreign ownership (not allowed, restricted, allowed)	No	No		
Reg. treatment of VoIP (banned, closed, no framework, allowed) B	В		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	1.2		2.3	
Telecommunications investment (% of revenue)	25.2		19.8	
Sector performance				
Access				
Fixed-telephone subscriptions (per 100 people)	4.5	4.7	4.0	
Mobile-cellular telephone subscriptions (per 100 people)	11.3	68.5	87.1	
Fixed-broadband subscriptions (per 100 people)	0.0	1.1	2.4	
Households with a computer (%)	1.9	6.1	17.0	
Households with Internet access at home (%)	1.4	5.1	18.3	
Usage Int'l. voice traffic, total (minutes/subscription/month)	14.7	13.4	8.8	
Domestic mobile traffic (minutes/subscription/month)			147.6	
Individuals using the Internet (%)	1.0	22.6	22.6	
Quality				
Population covered by a mobile-cellular network (%)	68	84	94	
International Internet bandwidth (bit/s per Internet user)	28	2,220	10,618	
Affordability				
Fixed-telephone sub-basket (\$ a month)		0.9	5.0	
Mobile-cellular sub-basket (\$ a month)		11.1	7.7	
Fixed-broadband sub-basket (\$ a month)		14.7	18.6	
Trade				
ICT goods exports (% of total goods exports)	0.0	0.0		
ICT goods imports (% of total goods imports)	2.1	1.2	8.0	
ICT service exports (% of total service exports)	15.8	22.0	51.1	
Applications				
Online service index (0-1, 1=highest presence)	0.21	0.31	0.24	
Secure Internet servers (per million people)	0.1	0.7	5.9	

Zambia

Sub-Saharan Africa	Lower n	ower middle inco		
	Countr	Country data		
	2005			
Economic and social context	2003	2017	2014	
Population (millions)	12	16	2,879	
Urban population (% of total)	37	40	3	
GNI per capita, World Bank Atlas method (\$)	550	1,680	2,01	
GDP growth, 2000–05 and 2005–14 (avg. annual %)	6.2	7.9	5.	
Adult literacy rate (% ages 15 and older)	61		7.	
Gross primary, secondary, tertiary school enrollment (%)			6	
Sector structure				
Separate telecommunications/ICT regulator	Yes	Yes		
Status of main fixed-line telephone operator	Public	Public		
Level of competition (competition, partial comp., monopoly)		. 20110		
International gateway(s)	С	М		
Mobile telephone service	P	M		
Internet service	P	M		
	R	IVI R		
Foreign ownership (not allowed, restricted, allowed) Reg. treatment of VoIP (banned, closed, no framework, allowed		R B		
Sector efficiency and capacity Telecommunications revenue (% of GDP)	2.1	0.1	2.	
Telecommunications revenue (% of revenue)	29.3		19.	
Sector performance				
Access Fixed-telephone subscriptions (per 100 people)	0.8	0.8	4.	
Mobile-cellular telephone subscriptions (per 100 people)	8.3	67.3	87.	
	0.0	07.3	2.	
Fixed-broadband subscriptions (per 100 people)				
Households with a computer (%) Households with Internet access at home (%)	1.4 0.1	6.6 6.9	17. 18.	
(A)	0.1	0.0	10.	
Usage Int'l. voice traffic, total (minutes/subscription/month)		1.9	8.	
	28.2	60.9	0. 147.	
Domestic mobile traffic (minutes/subscription/month) Individuals using the Internet (%)	28.2	17.3	147. 22.	
muviduals using the internet (%)	2.3	17.5	22.	
Quality Population covered by a mobile-cellular network (%)	65	78	9	
International Internet bandwidth (bit/s per Internet user)	67	4,223	10,61	
Affordability Fixed-telephone sub-basket (\$ a month)		6.6	5.	
		17.6	5. 7.	
Mobile-cellular sub-basket (\$ a month) Fixed-broadband sub-basket (\$ a month)		74.1	7. 18.	
Trade ICT goods exports (% of total goods exports)	0.0	0.2	6.	
	4.6	2.2	8.	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	2.7	4.2	8. 51.	
Applications Online service index (0-1, 1=highest presence)	0.23	0.14	0.2	
	0.23	3.4	5.	
Secure Internet servers (per million people)	0.2	5.4	5.	

Zimbabwe

Sub-Saharan Africa Low income

	Country data		Low- income
-	2005	2014	group 2014
Economic and social context			
Population (millions)	13	15	622
Urban population (% of total)	34	33	30
GNI per capita, World Bank Atlas method (\$)	430	830	626
GDP growth, 2000-05 and 2005-14 (avg. annual %)	-8.5	3.0	6.1
Adult literacy rate (% ages 15 and older) Gross primary, secondary, tertiary school enrollment (%)	 54	84 62	57 59
Sector structure			
Separate telecommunications/ICT regulator	Yes	Yes	
Status of main fixed-line telephone operator	Public	Public	
Level of competition (competition, partial comp., monopoly)	1 dbiio	1 00110	
International gateway(s)	М	Р	
Mobile telephone service	C	Р	
Internet service	Ċ	C	
Foreign ownership (not allowed, restricted, allowed)	R	R	
Reg. treatment of VoIP (banned, closed, no framework, allowed)	В	Α	
Sector efficiency and capacity			
Telecommunications revenue (% of GDP) Telecommunications investment (% of revenue)	 4.1	8.8 15.8	
Sector performance			
Access	2.6	2.3	0.9
Fixed-telephone subscriptions (per 100 people) Mobile-cellular telephone subscriptions (per 100 people)	5.1	80.8	57.2
Fixed-broadband subscriptions (per 100 people)	0.1	1.0	0.2
Households with a computer (%)	2.0	7.6	4.5
Households with Internet access at home (%)	0.9	5.8	4.2
Usage			
Int'l. voice traffic, total (minutes/subscription/month)		3.6	
Domestic mobile traffic (minutes/subscription/month)	51.7	32.1	39.8
Individuals using the Internet (%)	8.0	19.9	6.3
Quality Population covered by a mobile-cellular network (%)	70	84	
International Internet bandwidth (bit/s per Internet user)	54	3,939	4,196
international internet bandwidth (bit/s per internet user)	54	3,333	4,190
Affordability		10.0	0.7
Fixed-telephone sub-basket (\$ a month)		10.2	8.7
Mobile-cellular sub-basket (\$ a month)		20.3	11.7
Fixed-broadband sub-basket (\$ a month)		30.0	44.9
Trade	0.4		
ICT goods exports (% of total goods exports)	0.1	0.0	
ICT goods imports (% of total goods imports) ICT service exports (% of total service exports)	2.5	3.8	2.7 21.5
Applications			
Online service index (0-1, 1=highest presence)	0.30	0.31	0.11
Secure Internet servers (per million people)	0.2	4.5	1.2

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-telephone 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). (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 gigabyte, the cost for additional bytes is added to the sub-basket. The minimum speed of a broadband connection is 256 kbit/s. Data listed for 2014 are for 2013. (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 sub-basket refers to the monthly price charged for subscribing to the Public Switched Telephone Network (PSTN), plus the cost of 30 local calls to the same (fixed) network (15 peak and 15 off-peak calls) of three minutes each. The service refers to the traditional fixed telephone line and does not refer to, for example, prices for managed VoIP. Data listed for 2014 are for 2013. (International Telecommunication Union) (m)

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 2005 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 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 telecommunications, audio and video, computer and related equipment; electronic components; and other information and communication technology goods. Software is excluded. Re-exports (exports of foreign goods in the same state as previously imported) are included. Data listed for 2014 are for 2013. (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 12 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 2014 are for 2013. (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 (i.e., voice, data, and multimedia images/video) traffic 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-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 SMS messages. The mobile-cellular sub-basket is based on prepaid tariffs although postpaid tariffs may be used for countries where prepaid

subscriptions make up less than three 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. Data listed for 2014 are for 2013. (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 of a government's online presence based on four stages of e-government evolution: emerging presence, enhanced presence, transactional presence, and connected presence. A value of 0 indicates the lowest presence, a value of 1 the highest. (United Nations Department of Economic and Social Affairs and United Nations Public Administration Network) (m)

Population is based on the de facto definition of population, which counts all residents regardless of legal status or citizenship, except for refugees not permanently settled in the country of asylum, who are generally considered part of the population of their country of origin. Data are midyear estimates. (World Bank) (s)

Population covered by a mobile-cellular network refers to the percentage of people within range of a mobile-cellular signal, irrespective of whether they are subscribers or users or not. This is calculated by dividing the number of people within range of a 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), a generic term to describe the techniques used to carry voice traffic over IP. The status are 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 a fully private 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 self-reported 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 of time. It excludes expenditure on research and development (R&D), annual fees for operating licenses, and the use of radio spectrum. Data listed for 2014 are for 2013. (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 2014 are for 2013. (International Telecommunication Union) (w)

Urban population is the midyear population of areas defined as urban in each country and reported to the United Nations. (United Nations) (s)

VolP is Voice over Internet Protocol, a generic term.





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