

THE ITU'S ICT EYE

<http://www.itu.int/icteye>



Committed to connecting the world

WHAT IS THE EYE?



The ICT “eye” is a unified system that will enable ITU to track the development and use of ICTs, and measure efforts to build the information society.

The website is a one stop-shop for ICT information and provides ICT indicators and statistics, regulatory and policy profiles, national tariff policies and scientific institutions, link to WSIS Stocktaking, and much much more...



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- ITU ICT Eye
- ICT Statistics
- Regulatory Information
- Tariff Policies
- Scientific Institutions
- WSIS Stocktaking

» ITU ICT EYE + » REPORTS + » SURVEY LOGIN +

Welcome to ITU's ICT Eye

ITU, the UN specialized agency for telecommunications, has its "eye" on ICTs and is recognized around the globe as the leading provider of timely and comprehensive telecommunication/ICT statistics and trends.

The ICT "eye" website is a one stop-shop for ICT information and provides telecommunication/ICT indicators and statistics, regulatory and policy profiles, national tariff policies and scientific institutions, and much much more...

Please select a country/economy from the map or select from the following list:



Macromedia Flash MX plug-in is needed to view / use the map above. Download [here](#).

Map used with permission from the [United Nations Cyberschoolbus](#), Outreach Division, DPI.

The boundaries and names shown on this map do not imply official endorsement or acceptance by the International Telecommunication Union and the United Nations. All content linked to this map was created by the International Telecommunication Union.

Homepage



- ICT Statistics
- Regulatory Information
- Tariff Policies
- Scientific Institutions
- WSIS Stocktaking

Footer bar

-Reports
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- Tariff Policies
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- WSIS Stocktaking

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Geographical access to country snapshot



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Homepage



- ICT Statistics
- Regulatory Information
- Tariff Policies
- Scientific Institutions
- WSIS Stocktaking

Topical access

COUNTRY SNAPSHOT

International Telecommunication Union - BDT - Windows Internet Explorer

http://www.itu.int/ITU-D/icteye/DisplayCountry.aspx?countryId=214

International Telecommunication Union - ...

International Telecommunication Union

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Singapore

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[>> Tariff Policies database](#)

[>> More Regulatory info](#)

ICT Statistics 2008

Population	4 490 117
GDP (US) (2006)	132 152 926 369
Fixed telephone lines per 100 inhab. (2007)	41.97
Mobile cellular subscribers per 100 inhab. (2007)	133.54
Computers per 100 inhab. (2007)	76.87
Internet users per 100 inhab. (2007)	68.00
Broadband Internet subscribers per 100 inhab. (2007)	20.18
International Internet bandwidth (Mbps) (2007)	104 544
Radio sets per 100 inhab. (1997)	67.22
TV sets per 100 inhab. (2007)	21.32
% population with mobile signal (2007)	100.00

Regulatory Information 2008

Regulatory Authority

Name Infocomm Development Authority of Singapore
 Address 8, Temasek Boulevard, #14-00 Suntec Tower Three
 City Singapore 038988
 Phone +65 6211-0888
 Fax +65 6211-2222
 Email info@ida.gov.sg
 Website www.ida.gov.sg

Policy Maker

Name Infocomm Development Authority of Singapore
 Address 8, Temasek Boulevard, #14-00 Suntec Tower Three
 City Singapore 038988
 Phone +65 6211-0888
 Fax +65 6211-2222
 Email info@ida.gov.sg
 Website www.ida.gov.sg

Level of Competition 2008

Service	Competition
Local services	Full competition
Domestic fixed long dist	Full competition
Inter-national fixed long dist	Full competition
Wireless local loop	Full competition
Data	Full competition
DSL	Full competition
Cable modem	Full competition
VSAT	Full competition
Leased lines	Full competition
Fixed Wireless Broad-band	Full competition
Mobile	Full competition
Paging	n/a
Cable TV	N/A
Fixed sat	Full competition
Mobile sat	Full competition
GMPCS	Full competition

Tariff Policies 2007

Tariff model - type of costs

- Long-run incremental costs (LRIC)

Universal service policy

- Obligatory investment in unprofitable areas

Time period for absorbing access deficit

- None

Status of the main fixed-line operators

Operator	Status
SingTel	Partially private

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- » ITU ICT EYE
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ICT Statistics

Select Year: 2007

1. Basic indicators: Population, GDP, total telephone subscribers and total telephone subscribers per 100 people
2. Main telephone lines, subscribers per 100 people
3. Mobile cellular, subscribers per 100 people
4. Internet indicators: subscribers, users and broadband subscribers

For definitions, see the technical notes

Regulatory Information

Regional Reports

Select Region: -- Please Select --

- [Level of Competition](#)
- [Status of the main fixed-line operators](#)
- [Countries with a separate regulator](#)
- [Laws and Regulations by region](#)
- [Interconnection agreements and prices / Reference Interconnection Offers \(RIOs\)](#)
- [Licensing agreements](#)
- [Dispute resolution decisions](#)
- [Countering spam legislation and responsible countering spam authority](#)
- [IP Telephony](#)
- [Spectrum information](#)
- [Sector Structure - Private Sector Participation](#)

Country Reports

Country: -- Please Select --

- [Country Snapshot](#)
- [Country Profile \(includes contact details, market structure and regulatory environment\)](#)
- [Regulators Profile \(Includes details on the Regulators\)](#)

Tariff Policies

Region: <All>

Teledensity level: <All>

GDP level: <All>

Year From: 2008 To: 2008

- Cost and Tariff Models
- Universal Service Policy
- Tariff Rebalancing
- Time Bands, Tariff Zones and Interconnection
- Network Based on IP
- Price Controls - Telecom services
- Concept of Dominance
- Next-Generation Networks
- Survey question:

A. Price of domestic telecommunication services

Show statistics

Scientific Institutions

Geographical approach

Region: -- Please Select --

Country: -- Please Select --

- [List of Scientific Institutions](#)
- [List of Scientific Institutions with contact info](#)

Thematic approach

Institution data can be filtered by specifying various search criteria.

[Set criteria](#)


Report (example 1)

International Telecommunication Union - BDT - Windows Internet Explorer

http://www.itu.int/ITU-D/icteye/Reporting/ShowReportFrame.aspx?ReportName=/TREG/LevelOfCompetition2007&RP_intRegionID=3&RP_...

Select output: **HTML** PDF EXCEL

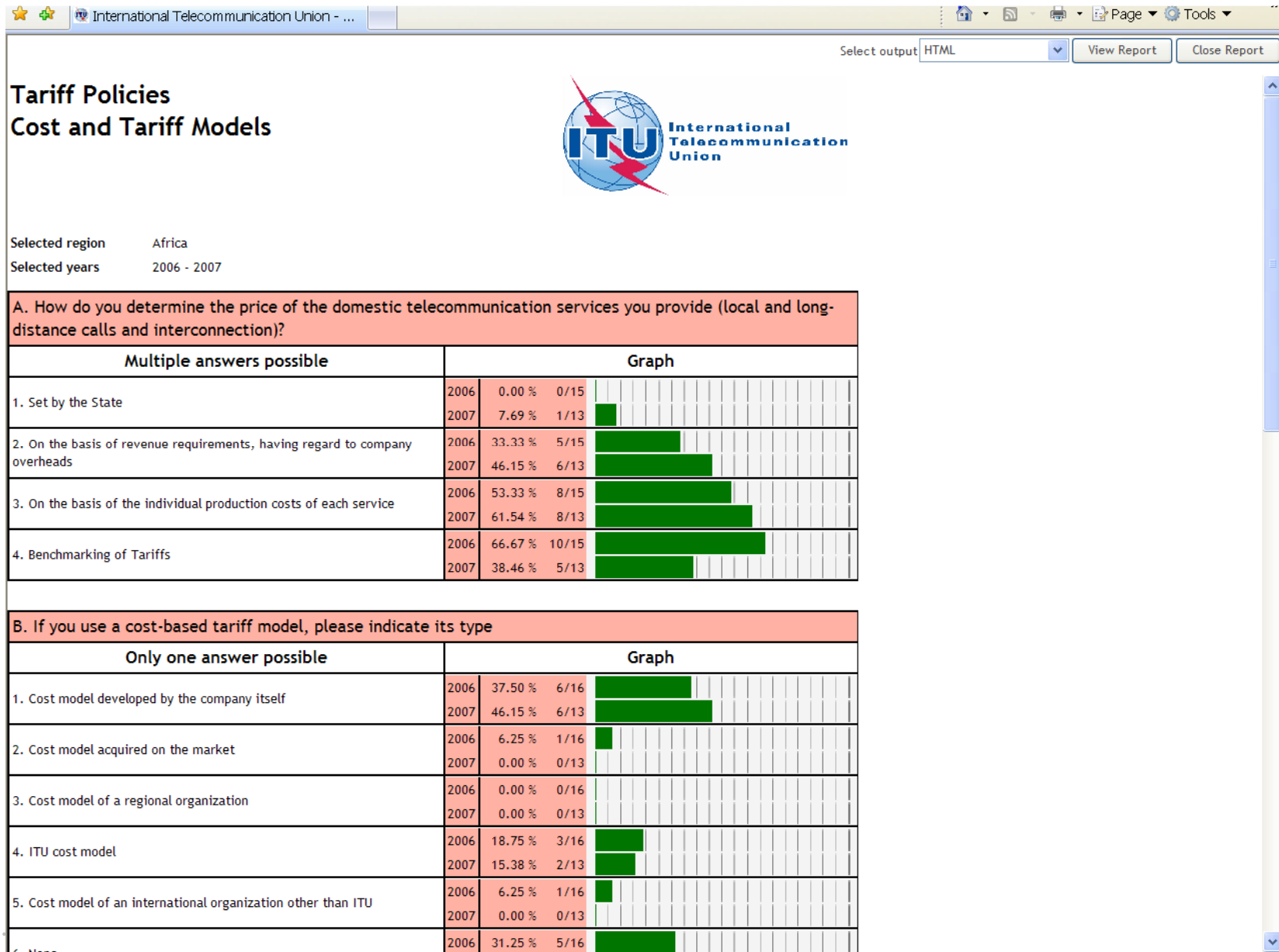
Level of Competition



Arab States

Country	Local services	Domestic fixed long dist	International fixed long dist	Wireless local loop	Data	DSL	Cable modem	VSAT	Leased lines	Fixed Wireless Broad-band	Mobile	Paging	Cable TV	Fixed sat	Mobile sat	GMP CS	IMT 2000	Internet services	International gateways
Algeria(2)	P	P	P	P	C	C	...	P	C	P	P	...	...	...	...	P	...	C	P
Bahrain	C	C	C	...	C	C	...	C	C	C	P	...	...	C	...	...	...	C	...
Comoros	M	M	M	M	M	M	M	...	M	M	M	...	...	M	M	...	M	M	M
Djibouti(2)	M	M	M	...	M	...	...	...	M	...	...	M	...	M	M	...	...	M	...
Egypt	M	M	M	M	C	C	...	C	C	...	C	...	...	C	C	C	C	C	P
Remarks: 1) All three mobile operators can apply for an international gateway (only one applied so far). 2) Second fixed line operator license to be awarded at the end of 2008/ early 2009. 3) Number of mobile operators is only limited by available spectrum (no MVNO).																			
Iraq(2)	M	M	M	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jordan	C 2005	C 2005	C 2005	C 2005	C 2005	C 2005	...	C 2005	C 2005	C 2005	C 2007	...	C 2005	C 2005	C 2005	C 2005	...	C 2005	C 2005
Kuwait(1)	M	...	M	...	P	...	...	M	M	M	M	...	P	M	M	M	...	P	M
Lebanon	M	M	M	M	P 2000	P 2007	...	P 2008	M	P 2005	M	...	P 2002	...	...	...	...	C 1996	M
Libya(2)	M	M	M	...	...	...	...	...	M	...	M	...	...	M	M	...	...	...	...

Report (example 2)



Report (example 3)


http://www.itu.int/ITU-D/icteye/Reporting/ShowReportFrame.aspx?ReportName=/Tariff/TariffAverage&RP_strCode=tpA&RP_intFromYear

International Telecommunication Union - ...

Select output: HTML View Report Close Report

Tariff Policies

Question Statistics



Selected region: Africa
 Selected years: 2006 - 2007

Note: These results were obtained using data from the years 2006 to 2007 (average).

No.	Question	Possible answers
A	How do you determine the price of the domestic telecommunication services you provide (local and long-distance calls and interconnection)?	1. Set by the State 2. On the basis of revenue requirements, having regard to company overheads 3. On the basis of the individual production costs of each service 4. Benchmarking of Tariffs

Multiple answers possible

Answer	Percentage
1	4%
2	39%
3	57%
4	54%

International Telecommunication Union Report generated: 1/27/2009 11:35:12 AM

SCIENTIFIC INSTITUTIONS

Global Database of Scientific Institutions Focusing on Telecommunications/ICTs

As instructed by ITU Members, it is important to strengthen ITU relationships with the world of science, i.e. research institutions and institutions of higher education, specializing in telecommunications/ICTs. In this framework this database increases the visibility of all scientific institutions on an international level; fosters international collaboration through simplification of the search process for research project partners; and gives information on institutions offering education programmes and undertaking research projects focusing on telecommunications.

The main objective of this database is to strengthen existing bonds and establishes new links with universities and other scientific institutions in identifying trends in finance and economics of telecommunication/ICT networks and services. The database contains those institutions focusing on telecommunications/ICTs and specializing in: economics, management, regulation, technology

The data on institutions have been furnished by National Regulatory Authorities, Ministries of Communications, and Ministries of Education. Scientific Institutions had been contacted and requested to complete the data.

We all build the global knowledge-based information society!

Remark: The information in this database is that of the Scientific Institutions and does not necessarily represent the opinions of ITU or its membership. The terms and definitions used are the author's own and can on no account be regarded as replacing the official ITU definitions. As the information is completed by the Scientific Institutions, the data may be incomplete, but institutions are being contacted and encouraged to supply complete information. Should you encounter any difficulty, please contact ITU/BDT/Market, Economics and Finance Unit: E-mail: ITU-D-economic-tools@itu.int

Geographical approach

Region

[List of Scientific Institutions](#)

[List of Scientific Institutions with contact info](#)

Thematic approach

You can filter institution data by specifying various search criterias.

[Set criteria](#)

Register

Here you can register a Scientific Institution.

[Link to Application Form](#)



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DATA AVAILABLE (by TOPIC)

Homepage



ICT Statistics

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REGULATORY INFORMATION

>> ITU ICT EYE +

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>> MAIN SURVEY PAGE +

Regulatory Knowledge Centre

The information and communication technology (ICT) sector is in the midst of remarkable transformation fuelled by a combination of technological, market, policy and regulatory developments. These changes include unparalleled numbers of voice telephone subscribers, the rise of IP-enabled networks and Voice over IP (VoIP) services, initial - yet promising - deployment of fixed-line broadband and broadband wireless access (BWA) services and intelligent radio devices. The market and technological developments are exerting pressure on the current regulatory framework. How will regulation change?

One of the core functions of BDT is the collection, analysis and dissemination of information on telecommunication regulatory trends and practices, collectively known as the Regulatory Knowledge Centre. This site is an online one-stop-shop for the latest ICT regulatory information. The data is drawn from an annual regulatory survey, which dates back to 1994. Each year the survey is adapted in order to reflect changes in the sector.

Since the start of the survey, the number of countries with separate regulators has grown by over 200%; the number of countries that have privatized has doubled and the number of countries providing competitive basic services has grown by over 500%. To view the latest trends, select the desired reports from the right hand menu.

Regional Reports

Select Region

[Level of Competition](#)

[Status of the main fixed-line operators](#)

[Countries with a separate regulator](#)

[Laws and Regulations by region](#)

[Interconnection agreements and prices / Reference Interconnection Offers \(RIOs\)](#)

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[Spectrum information](#)

[Sector Structure - Private Sector Participation](#)

Country Reports

Country

[Country Snapshot](#)

[Country Profile \(includes contact details, market structure and regulatory environment\)](#)

[Regulators Profile \(Includes details on the Regulators structure, financing and functions\)](#)

[Universal Service Profile \(Includes details on the Universal Service coverage, programs and financing\)](#)

[Address Book](#)

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Contact for this page : Webmaster

Generated : 2009-01-20



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TARIFF POLICIES

The screenshot shows a web browser window with the following elements:

- Browser Title Bar:** International Telecommunication Union - BDT - Windows Internet Explorer
- Address Bar:** http://www.itu.int/ITU-D/ICTEYE/TariffPolicies/TariffPolicies.aspx
- Search Bar:** Google
- Page Header:** International Telecommunication Union. Navigation links: Our Sites, News, Events, Publications, Site Map, About Us. Language options: Français, Español. Print Version.
- Left Navigation Menu:**
 - ITU ICT Eye
 - ICT Statistics
 - Regulatory Information
 - Tariff Policies
 - Scientific Institutions
 - WSIS Stocktaking
- Main Content Area:**
 - Navigation tabs: >> ITU ICT EYE, >> REPORTS, >> MAIN SURVEY PAGE
 - Tariff Policies Database:**

The objective of this database is to track and show trends in the application of Tariff Policies related to pricing, cost/tariff models, analytical accounting, interconnection charges, management of universal service and price control in different countries.

Data is provided annually by Telecommunication Regulatory Authorities and Network Operators. This reflects the situation of the organization at the date the questionnaire is completed.
 - Reports:**
 - Region: <All>
 - Teledensity level: <All>
 - GDP level: <All>
 - Year From: 2008 To: 2008
 - Selected: Cost and Tariff Models
 - Other options: Universal Service Policy, Tariff Rebalancing, Time Bands, Tariff Zones and Interconnection, Network Based on IP, Price Controls - Telecom services, Concept of Dominance, Next-Generation Networks, Survey question:
 - Selected question: A. Price of domestic telecommunication services
 - Show statistics button

Footer: Top - Feedback - Contact Us - Copyright ©ITU 2009 All Rights Reserved
Contact for this page : Webmaster
Generated : 2009-01-27

ICT STATISTICS

ICT Statistics Database

As a United Nations agency, the ITU has an obligation to identify, define, and produce statistics covering its sector - the telecommunication/ICT sector. This is in line with other specialized agencies that publish statistics covering their respective field of operations and forms part of the global statistical system of the UN.

The [collection of over 100 telecommunication/ICT indicators](#) is one of the main activities of the unit. The ITU's Market Information and Statistics (STAT) Unit collects its Telecommunication/ICT data directly from governments by means of an annual questionnaire that is sent to the government agency in charge of telecommunications/ICT. This is usually the Ministry or the regulatory agency. The STAT Unit verifies and harmonizes data, carries out research, and collects missing values from government web sites and operators' annual reports, particularly for countries that do not reply to the questionnaire. Market research data are also used to cross-check and complement missing values.

The indicators/statistics published in this publication are used to back up ICT sections in inter-governmental publications such as the UNDP Human Development Report, the World Bank World Development Indicators and the United Nations Statistical Yearbook. Data are available in a number of formats including printed publications, CD-ROM, and by electronic download.

The flagship publication, the [Yearbook of Statistics](#), has been published annually for almost three decades and is widely respected as the world's leading source of ICT statistics.

The electronic database, [World Telecommunication/ICT Indicators](#), available both in a user-friendly CD-ROM and by electronic download, provides an important historical perspective of the Information and Communication Technology (ICT) industry, with annual time series dating back to 1960 and extending until 2007 - for over 100 items and some 200 economies.

Some key and popularly requested ICT/telecommunication data are provided for free, at <http://www.itu.int/ITU-D/ict/statistics/>. Users also have free access to our presentations; definitions and references of handbooks and links to other relevant sites and information sources.

Country data by region

Select Year

[1. Basic indicators: Population, GDP, total telephone subscribers and total telephone subscribers per 100 people](#)

[2. Main telephone lines, subscribers per 100 people](#)

[3. Mobile cellular, subscribers per 100 people](#)

[4. Internet indicators: subscribers, users and broadband subscribers](#)

[For definitions, see the technical notes](#)

Report (example 4)

Select output

HTML

View Report

Mobile cellular subscribers

	Mobile cellular subscribers					As % of total
			CAGR	per 100	%	telephones
	(000s)		(%)	inhabitants	Digital	subscribers
	2002	2007	2002 - 07	2007	2007	2007
1 Algeria	450.2	27'562.7	127.7	81.41	100.0	90.0
2 Angola	140.0	4'961.5	104.1	29.14	...	97.9
3 Benin	218.8	1'904.3	54.2	21.08	100.0	94.5
4 Botswana	332.3	1'151.8	28.2	61.21	123.9	89.4
5 Burkina Faso	111.0	1'611.0	70.7	10.90	98.4	91.5
6 Burundi	52.0	250.0	36.9	2.94	100.0	85.1
7 Cameroon	701.5	4'536.0	45.3	24.45	...	96.0
8 Cape Verde	42.9	148.0	28.1	27.90	100.0	60.3
9 Central African Rep.	12.6	130.0	59.5	2.99	...	90.2
10 Chad	34.2	918.4	93.1	8.52	100.0	97.3
11 Comoros	-	40.0	-	4.77	100.0	65.9
12 Congo	221.8	1'287.6	42.2	34.17	100.0	97.2
13 Congo (Dem. Rep.)	560.0	6'592.0	63.7	10.52	100.0	99.9
14 Côte d'Ivoire	1'027.1	7'050.0	47.0	36.60	100.0	94.0
15 Djibouti	15.0	44.1	43.2	5.55	100.0	80.3
16 Egypt	4'494.7	30'065.2	46.2	39.82	100.0	72.8
17 Equatorial Guinea	32.0	220.0	47.0	43.35	...	90.6
18 Eritrea	-	84.3	-	1.74	100.0	69.3
19 Ethiopia	50.4	1'208.5	88.8	1.45	...	57.9
20 Gabon	279.3	1'169.0	33.2	87.86	100.0	97.8
21 Gambia	100.0	800.4	51.6	46.84	...	91.3
22 Ghana	386.8	7'604.1	81.4	32.39	100.0	95.3
23 Guinea	90.8	2'000.0	85.6	21.34	...	97.6
24 Guinea-Bissau	-	296.2	-	17.48	95.7	98.5
25 Kenya	1'187.1	11'349.4	57.1	30.23	100.0	97.7
26 Lesotho	138.0	456.0	27.0	22.71	100.0	87.1
27 Liberia	2.0	563.0	209.0	15.01	...	99.6
28 Libya	70.0	4'500.0	129.9	73.05	...	70.1
29 Madagascar	163.0	2'217.6	68.6	11.27	100.0	94.3
30 Malawi	86.0	1'050.9	65.0	7.55	100.0	85.7
31 Mali	46.0	2'530.9	122.9	20.51	...	96.9
32 Mauritania	247.2	1'300.0	39.4	41.62	...	97.0
33 Mauritius	348.1	928.6	21.7	73.60	100.0	72.0

Quick Summary:

- ICT Eye web page registered an average of **850** visits per day in 2008
- Number of requests for ICT statistics **increased**, average of 5 requests per day
- Replies to ICT Statistics survey/questionnaire **increased** by 25% in 2008



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Dynamic Query

– new feature to be added

Indicator

Database	Data Element	Data Description	Data Type	
WTI	i271	mobile cellular telephone subscribers (post-paid + prepaid)	Number	Add
WTI	i271pop	Percent coverage of mobile cellular network (population)	Number	Add

Region

Time period

Group by

<input type="radio"/>	Country	Data Element	Years	

<input type="radio"/>	Years	Country	Data Element	

<input type="radio"/>	Data Element	Country	Years	

<input type="radio"/>	Years		Data Element	
Country				

<input type="radio"/>	Country	Years	Data Element	

<input checked="" type="radio"/>	Data Element		Years	
Country	Years	Years		

Dynamic Query -sample output

Select output HTML View Report

Excel
HTML
PDF

Region	Country	i271			i271pop		
		2005	2006	2007	2005	2006	2007
Africa	Angola	1'611'118.00	2'264'215.00	4'961'536.00	...	40.00	...
	Benin	596'267.00	1'055'727.00	1'904'334.00	43.00	70.00	80.00
	Botswana	563'782.00	823'070.00	1'151'761.00	99.00	99.00	99.00
	Burkina Faso	633'554.00	1'016'605.00	1'611'000.00	26.00	61.10	...
	Burundi	153'000.00	200'000.00	250'000.00	...	82.00	...
	Cameroon	2'252'508.00	3'135'946.00	4'536'000.00	54.00	58.00	...
	Cape Verde	81'721.00	108'858.00	148'000.00	85.00	87.00	...
	Central African Rep.	100'000.00	110'000.00	130'000.00	19.30	19.30	...
	Chad	210'000.00	466'088.00	918'356.00	23.80	24.00	...
	Congo	558'192.00	917'499.00	1'287'631.00	39.00	53.00	...
	Congo (Dem. Rep.)	2'746'094.00	4'415'470.00	6'592'000.00	50.00	50.00	50.00
	Côte d'Ivoire	2'349'439.00	4'065'421.00	7'050'000.00	55.00	59.00	...
	Equatorial Guinea	96'900.00	140'000.00	220'000.00	...	...	...
	Eritrea	40'438.00	61'996.00	84'348.00	...	1.25	1.65
	Ethiopia	410'630.00	866'700.00	1'208'498.00	10.00	10.00	...
	Gabon	736'690.00	897'987.00	1'169'000.00	78.00	78.00	79.00
	Gambia	247'478.00	404'345.00	800'371.00	70.00	70.00	85.00
	Ghana	2'874'560.00	5'207'242.00	7'604'053.00	59.00	65.30	68.00

SURVEY LOGIN (Restricted)

- >> ITU ICT EYE +
- >> REPORTS +
- >> MAIN SURVEY PAGE +



Each year the ITU/BDT undertakes a series of surveys in order to assess the latest trends and developments in the ICT sector. Survey data is entered by authorized users only, as defined by their organizations. Each user will be given a dedicated user name and password in order to complete the survey.

User name

Password

Remember Me

Access page for on-line Survey completion. Data are entered by authorized users only.



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Example of a Survey page - Regulatory

International Telecommunication Union
BDT Administration Site - Français Español
Print Version

Page 7

Telecommunication Regulatory Survey 2008 InProgress 7/33

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[Public Site](#)
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3. The Regulatory Authority(cont.)

3.4. Leadership

3.4.1. Indicate name of the Head of the Regulatory Authority

2007:
2008:

3.4.1.1. Exact title:

2007:
2008:

3.4.2. Is the Telecommunication Regulatory Authority a collegial body (i.e. are there Members/Commissioners)? 2007: 2008:

3.4.2.1. Indicate total number of members/commissioners (including the Head) 2007: 2008:

3.4.2.1.1. Number of female members 2007: 2008:

3.4.2.2. Is the Head of the commission also responsible for day to day administrative matters? 2007: 2008:

3.4.3. Who appoints the Members/Head?



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Example of a Survey page – ICT Statistics

Page 2

ITU World Telecommunication/ICT Indicators Long Survey 2008

Published 2/18

Azerbaijan

Fiscal Year: Ending 31.12
National Currency: AWG New Manat

*All numerical data must be entered WITHOUT any punctuation, i.e. no apostrophes, commas, spaces, etc.
All financial data (tariffs, revenues, capital expenditure) should be provided in LOCAL currency.*

FIXED TELEPHONE NETWORK

i112 Main (fixed) telephone lines in operation

2005: 1'094'200 2006: 1'188'700 2007:

Note 2005

Note 2006

[Click here to enter your note](#)

Update 2005 data, if needed:

[Click here to enter your note](#)

Update 2006 data, if needed:

[Click here to enter your note](#)

i117 Total capacity of local public switching exchanges

2005: 1'258'800.00 2006: 1'384'300.00 2007:

Note 2005

Note 2006

[Click here to enter your note](#)

Update 2005 data, if needed:

[Click here to enter your note](#)

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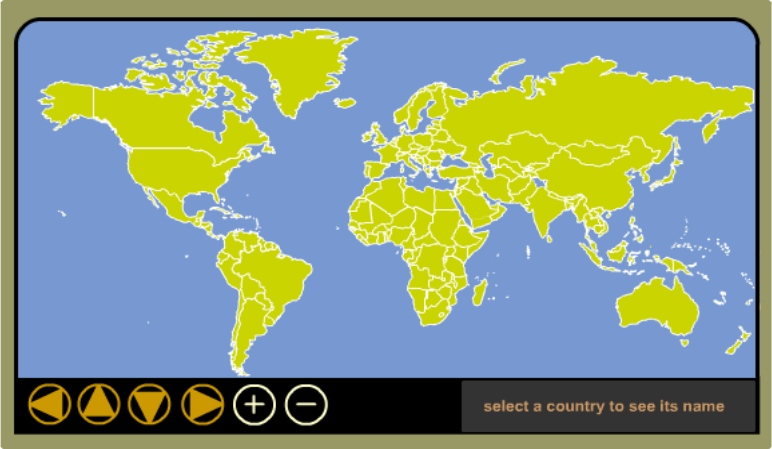
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Welcome to ITU's ICT Eye

ITU, the UN specialized agency for telecommunications, has its "eye" on ICTs and is recognized around the globe as the leading provider of timely and comprehensive telecommunication/ICT statistics and trends.

The ICT "eye" website is a one stop-shop for ICT information and provides telecommunication/ICT indicators and statistics, regulatory and policy profiles, national tariff policies and scientific institutions, and much much more...

Please select a country/economy from the map or select from the following list: -- Please Select --



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Homepage



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FEEDBACK

icteye@itu.int



Thank you

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