



STRATEGIC IMPACT OF COST MODELING AND DISPUTE RESOLUTION MECHANISMS

**ITU Executive-level Training for Heads of
Regulatory Authorities**

BDT Regulatory tools and activities

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BDT Regulatory and Market Environment

Geneva, Switzerland June 27 – 28, 2011





BDT Regulatory tools and activities

- Economics and financial aspects including costs and tariffs
- Regulatory Reform activities



Research and Analysis

- A Broadband Series reports will be released in September 2011, focusing on:
 - The Impact of broadband on the economy
 - Exploring the economic valuation and social value of Broadband Spectrum
 - Pricing strategies for broadband services



Research and Analysis

- Study on Taxation of telecommunication services and related and Workshop
Geneva, Switzerland from 1 to 2 September 2011
- Study on International Internet Connectivity and Workshop
Geneva, Switzerland from 23 to 24 January 2012
- Study on origin identification and alternative calling procedures and Workshop
Geneva, Switzerland from 19 to 20 March 2012



Financing Strategies

- Cost Models
- Publications
- COSITU
- Events
- Useful Links
- Regulatory Reform

Economics and Finance of Telecommunications

News

- Developments of Next Generation Networks (NGN): Country Case Studies**
The aim of this document is to present the current situation of NGN development in different regions of the world and to examine what effect the transition towards NGNs is having on regulation.
- Mobile Termination Rates: To Regulate or not To Regulate**
Over past few years mobile termination charges — the charges that mobile operators levy on each other and on fixed network operators for terminating calls on their networks — have become a concern in many countries throughout the world. The main aim of this paper is to analyze the development of MTR regulation in the different regions of the world and to evaluate the necessity and the scope of such regulation.

Events

- News ITU Workshop on taxation of telecommunications services and related products**
Geneva, Switzerland, 1-2 September 2011
- News ITU Executive-level training for Heads of Regulatory Authorities: Strategic impact of cost modeling and dispute resolution mechanisms**
Geneva, Switzerland, 27 - 28 June 2011
- ITU Regional Seminar on Costs and Tariffs and Meeting of Study Group 3 Regional Group for Africa (SG3RG-AFR) (former TAF Group) Gaborone**
Gaborone, Botswana, 17 - 18 May 2011
- Regional Seminar on Costs and Tariffs for Member Countries of the Study Group 3 Regional Group for Asia and Oceania (SG3RG-AO)**
Phuket, Thailand, 8-11 March 2011
- Regional Seminar on the economic and financial aspects of telecommunications for member countries of the Study Group 3 Regional Group for Latin America and Caribbean (SG3RG-LAC)**
San Salvador, El Salvador, 15-18 February 2011
- More past events**

Surveys

- 9th Survey on tariff policies, tariff models and calculation methods on national telecommunication service rates for 2010**
- Results Tariff Policies Survey years 2007 - 2009 (Annex Rapport final Question 12-2/1 of the ITU-D Study Group 1)**

Cost Modeling

- COSITU 09: the ITU model for the calculation of Costs, Tariffs and Rates for**

ICT-Eye



The ICT Eye

a one stop-shop for ICT information - including results from the **Tariff Policies Survey**

What is the eye?

Tools, Studies and research

- Regulatory Accounting Guide**
This guide focuses on the implementation of cost accounting models and the development of regulatory policies, based on best practices, to help National Regulatory Authorities (NRAs) implement a regulatory accounting model. It also provides a methodology to identify markets, Significant Market Power (SMP) operators and the different typologies of anticompetitive behaviour.
- Efficient Operator: Methodologies, modeling and application for tariff regulation**
This study sets forth and analyses the methodologies for fixing tariffs used in the modeling of an efficient operator, focusing on the advantages and disadvantages and looking at the results of a number of recent applications in Chile, Venezuela and Colombia.
- International Mobile Roaming Regulation – An incentive for cooperation**
This paper addresses a variety of issues raised by international mobile roaming charges: how do they differ from charges for non-roaming international mobile calls (i.e. when a mobile subscriber calls an international number from its home country); what is the structure of their costs; is there a need for regulatory intervention and, if so, how could they be regulated; and finally, is cooperation and coordination on international mobile roaming regulation beneficial?
- Broadband Telecommunications in Latin America**
Available only in Spanish
- Regional diagnosis of telecommunication policies, strategies and regulations, and the development of Information and Communication Technology (ICT) in Latin America**
Application of ICTs in the areas of education, health and disasters in rural areas, isolated regions and in marginalized urban areas. Available only in Spanish.
- Study on the application of cost models in Latin American and Caribbean countries**
- Reports on Market Liberalization for CEE countries and Baltic States**
This report is on the theoretical and practical aspects of significant market power in telecommunications. It is part of a series of ITU telecommunication studies analyzing economic aspects of telecommunications carried out by ITU/BDT's Regulatory and Market Environment division (RME).
- Study on IP-based networks: Pricing of telecommunication services**
- Results from the regional assessment of the telecommunication market in Latin America and the Caribbean**
This study had been implemented in the framework of the Agenda for Connectivity in the Americas.

Work on economics

- Trends in Economics and Finance: The Use of Economic Modeling in Telecommunications**
In the telecommunication industry, economic modeling techniques such as regression analysis, simulations and linear programming are powerful tools that can aid decision





Platforms to increase communication and knowledge on Economics and Finance

- Regional *Seminar on the Economic and Financial Aspects of Telecommunications* and Meeting of the Study Group 3 Regional Group **for Latin America and the Caribbean** (SG3RG-LAC)
- Regional *Seminar on Costs and Tariffs* and Meeting of the Study Group 3 Regional Group **for Africa** (SG3RG-AFR)
- Regional *Seminar on Costs and Tariffs* and Meeting of the Study Group 3 Regional Group **for Asia and Oceania** (SG3RG-AO)

The **ICT Regulation Toolkit** is a live resource for policy-makers, regulators, the telecom industry, and consumers. It provides a global overview of how telecom policy is best implemented with practical materials highlighting experience and results. [▶ More](#)

- ▶ [Table of Contents](#)
- ▶ [Table of Practice Notes](#)
- ▶ [Table of Reference Documents](#)
- ▶ [Glossary](#)
- ▶ [Translations](#)

The **Tenth Anniversary Edition of the Telecommunications Regulation Handbook** can be downloaded [here!](#)

ICT REGULATION TOOLKIT: YOUR FEEDBACK

We invite you to participate in this survey to know more about your experience using this toolkit.

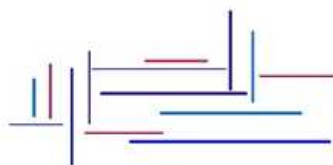
[▶ ENTER SURVEY](#)

EVENTS

- ▶ [10th Global Symposium for Regulators \(GSR\) Dakar | 10-12 Nov 10](#)
- ▶ [9th Global Symposium for Regulators \(GSR\) Beirut | 10-12 Nov 09](#)

Module 1: Overview: Regulating the Telecommunications Sector

The ICT Regulation Toolkit, produced by the Information for Development Program (infoDev) and the International Telecommunication Union (ITU), is a practical, web-based tool intended for ICT policymakers and regulators around the world. Module 1 provides an overview of the Toolkit while Modules 2-7 cover a number of specific topics including competition and pricing; authorization; universal access; radio spectrum management; legal and institutional frameworks; and new technologies. The Toolkit also contains extensive practice notes and reference materials. Under each Module abstract below are links to the full text of the module, the executive summary, and a clickable table of contents. Translated versions are included where available.



▶ [Table of Contents 1 \(html\)](#) | [Full Module 1 \(pdf\)](#) | [in French](#) | [in Spanish](#) | [in Russian](#) | [in Chinese](#) | [in Arabic](#)

Module 2: Competition and Price Regulation



This Module discusses some of the principal regulatory issues affecting the information and communications technologies (ICT) market. In particular, this module provides guidance on competition policy issues, including interconnection and price regulation. Services resulting from convergence, such as Voice over Internet Protocol (VoIP), are also discussed in order to underscore the necessity of market flexibility and to emphasize the impact of innovation on market structure.

▶ [Executive Summary \(pdf\)](#) | ▶ [Table of Contents 2 \(html\)](#) | ▶ [Full Module 2 \(pdf\)](#)

Module 3: Authorization of Telecommunication/ICT Services

In an age of convergence and rapid innovation, a country's authorization regime plays a critical role in determining whether it will reap the benefits of such advances or be left

DSS
15
19

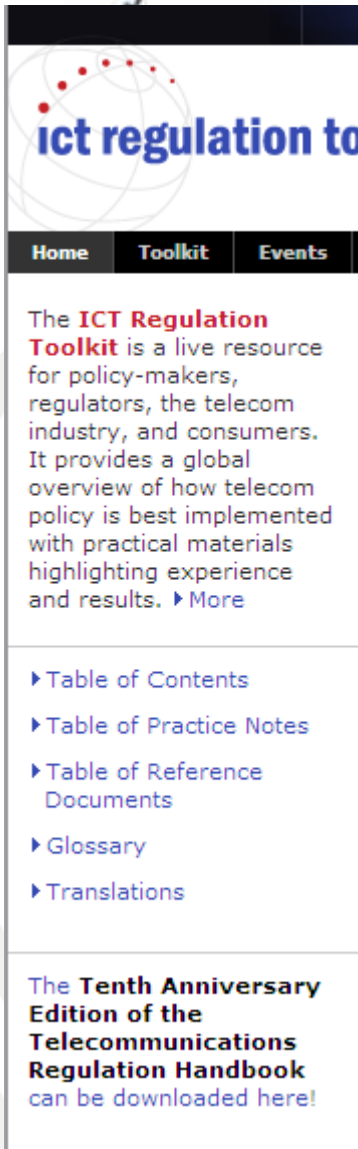
7 thematic modules

- Regulating the telecommunications sector - overview
- Competition and price regulation
- Authorization of Telecommunication/ICT Services
- Universal Access and Service
- Radio Spectrum management
- Legal and institutional framework
- New technologies and impact on regulation



10th anniversary edition

Telecommunication Regulatory Handbook 2010



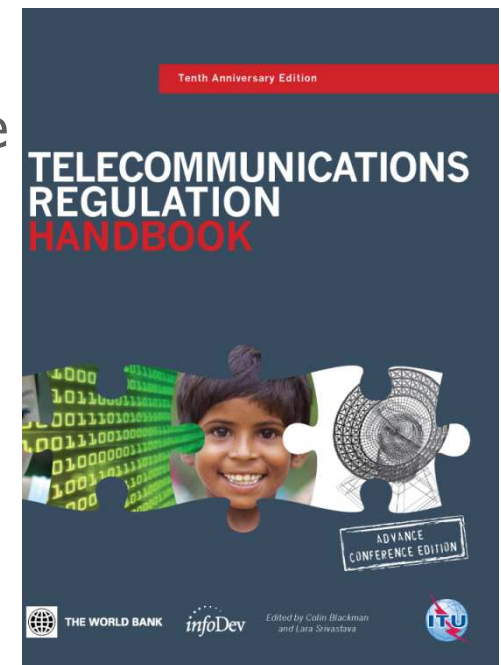
Home | Toolkit | Events

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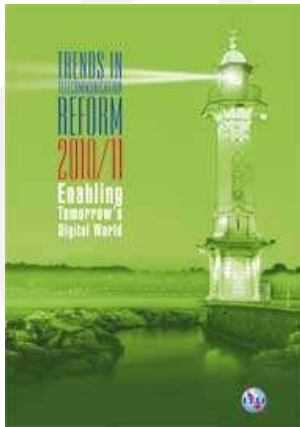
The **Tenth Anniversary Edition of the Telecommunications Regulation Handbook** can be downloaded [here!](#)

- One-stop shop for regulators
- Comprehensive and accessible coverage of key regulatory principles
- Emphasis on current issues arising from convergence, the advent of Internet and the transition to always-on digital networks





Trends in Telecommunication Reform 2010-11



Chapter 1: Overview of trends in the ICT market and in ICT regulation

Chapter 2: The Impact of Broadband on the Economy: Research to Date and Policy Issues

Chapter 3: ICT Regulation in the Digital Economy

Chapter 4: The Liberalization of ICT Dispute Resolution

Chapter 5: Spectrum in Transition: The Digital Dividend

Chapter 6: The Role of ICT Regulation in Addressing Offences in Cyberspace

Chapter 7: Climate Change, ICTs and Regulation

Chapter 8: Postcards from the Information Society: Living with Always-On Technology – the Good, the Bad, and the Just Plain Baffling

* [Previous editions](#)

2009 Hands-on or hands-off? Stimulating growth through effective ICT regulation

2008 Six Degrees of Sharing

2007 The Road to Next-Generation Networks (NGN)

2006 Regulating in the Broadband World

2004/2005 Licensing in an Era of Convergence

2003 Promoting Universal Access to ICTs



11th Global Symposium for Regulators

4th Global Industry Leaders' Forum (GILF)

20 to 23 September 2011
Armenia City, Colombia

Smart Regulation for a Broadband World

GSR and GILF will examine smart regulatory measures regulators can take to achieve broadband for all, foster innovation, and address the complexities and challenges of the broadband ecosystem

4th Global Industry Leaders' Forum, 20 September 2011

www.itu.int/gsr11



Themes of the GSR11 sessions

- » **Session 1:** M-banking and m-financial services the role of the regulator
- » **Session 2:** Wireless broadband spectrum pricing
- » **Session 3:** Satellite regulation to foster broadband access
- » **Session 4:** Setting national broadband policies, strategies and plans
- » **Session 5:** Open access regulation
- » **Session 6:** Financing universal access/service to broadband
- » **Session 7:** E-waste and recycling: what regulators can do
- » **Session 8:** Protecting the rights of all stakeholders in the digital ecosystem
- » **Session 9:** Regional initiatives to foster broadband connectivity



Global Regulators' Exchange (G-REX)

Global Regulators' Exchange (G-REX)

International Telecommunication Union

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G-REX, The Virtual Tool For Regulators

The **Global Regulators' Exchange** (G-REX) is a password protected website* for national communications regulators, policy makers and regional regulatory organizations.

This exciting initiative, launched by the Telecommunication Development Bureau (BDT) of the International Telecommunication Union (ITU) in May 2001 provides a vehicle for sharing information, views and experiences on pressing regulatory issues. Regulatory information is key to creating an enabling environment to bridge the digital divide.

The most popular feature of G-REX is the **Hotline** through which regulators and policy makers can pose any question they wish and seek feedback from their colleagues around the world. G-REX Advisors translate all postings into French, Spanish and English and research regulators' websites to find useful information responsive to Hotline queries.

G-REX is managed by the Regulatory & Market Environment Division (RME):
regulators.hotline@itu.int

The RME is also in charge of TREG, the Regulatory Knowledge Center, providing key regulatory information such as:

- Websites, names and addresses of regulators and policymakers worldwide
- The most comprehensive listing of telecom
- Regulatory information at regional & country levels
- Profiles (country, regulators and regional)
- Link to the ITU-InfoDev ICT Regulation Toolkit
- Useful documentation on key subjects
- Case studies
- Self-learning material

[Login](#) Registered Members

* The staff of national communications regulatory bodies, policy makers and regional regulatory organizations interested in registering for G-REX are invited to do so here:

[JOIN US!](#) New registration

<http://www.itu.int/ITU-D/grex/index.html>

Global Regulators' Exchange (G-REX)

Committed to Connecting the World



ITU Global Regulators Exchange

International Telecommunication Union

G-REX

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G-REX also offers virtual conferences on cutting edge regulatory issues. G-REX virtual conferences combine a telephone conference call and a dedicated website through which participants can, in real time, share power point presentations and engage in online chat.

>> enter the forum

Direct Access

[Regulators Hotline](#)

[Bulletin Board](#)

Hot Links

[TREG resource portal](#)
A collection of resources on ICT Regulation

Announcements

- 11th Global Symposium for Regulators Armenia City, Colombia 21-23 September 2011
- Smart Regulation for a Broadband World
- 10th ITU Global Symposium for Regulators (GSR10), Dakar, Senegal, 10-12 November 2010, *Enabling tomorrow's digital world*
See also the GSR10 best practice guidelines for enabling open access

Dear regulators,
please send us information about your forthcoming events!

ITU Global Regulators Exchange - Regulators Hotline

International Telecommunication Union

G-REX

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Dear regulators,
please send us information about your forthcoming events!

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Regulators Hotline

Post New Question
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Page: 1 of 30

Sort by	last question posted	in	descending	order from	all questions	Go	
	Web Page Services						
	Dear Regulators, could you please provide me with different countries practices in regulating web based services / on line services like e-post services, e-banking services and e-social			Licensing	Ahmad Al Hadabi	0	25
							16 May 2011 16:25:00 by: Michèle Rioux
	Number Portability Legislations						
	Dear All, I will be extremely grateful for countries that have number portability legislation to share them with me.			Legislation	Teki Akuetteh	5	69
	Thank you. ----- Bonjour à tous						20 June 2011 06:37:04 by: Wajana Chuentongkam
	regulation des services SMS						
	Bonjour, je travaille sur la problématique de la régulation ou pas des services SMS. si possible: - d'obtenir votre expérience en la matière. - des chiffres ou statistiques récentes sur			Effective regulation	Romain Ciza Mweze	0	21
							27 April 2011 22:01:01 by: Michèle Rioux
	fibre optique						
	J aimerais avoir l'expérience d'un pays ayant déployer la fibre optique en milieu urbain. ----- I would like to know about the experience of a country that has dep			Internet and broadband	Ghislaine Amane	1	36
							25 April 2011 02:20:25 by: Michèle Rioux



Keeping an “Eye” on ICTs

- one stop-shop for Telecom/ICT data, providing historical and up to date statistics, regulatory and policy profiles, national tariff policies and more
- Key tool for policy makers, the media, investors, analysts, stakeholders, etc, allowing them to analyze trends, benchmark success and make informed decision

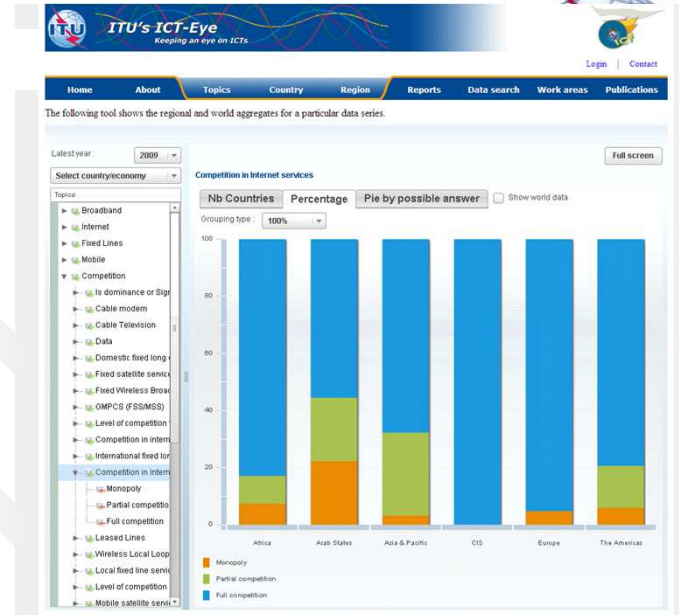
ITU ICT EYE

ICT Statistics

Regulatory Information

Tariff Policies

Coming soon on www.itu.int/icteye



ITU's ICT-Eye
Keeping an eye on ICTs

Select output: HTML View Report Close Report

International Telecommunication Union
Dynamic Reporting

Topic	Data short description (used below)	Data description
TREG	Competition in internet services	Level of competition in internet services

	Competition in Internet services			
	2006	2007	2008	2009
Africa				
Angola	Full competition	Full competition	Full competition	Full competition
Benin	Full competition	Full competition	Full competition	Full competition
Botswana	Full competition	Full competition	Full competition	Full competition
Burkina Faso	Full competition	Full competition	Full competition	Full competition
Burundi	Full competition	Full competition	Full competition	Full competition
Cameroun	Full competition	Full competition	Full competition	Full competition
Cape Verde	Full competition	Partial competition	Partial competition	Partial competition
Central African Rep.	Full competition	Full competition	Full competition	Full competition
Chad	Full competition	Full competition	Full competition	Full competition
Congo				
Congo (Dem. Rep.)	Full competition	Full competition	Full competition	Full competition
Côte d'Ivoire	Full competition	Full competition	Full competition	Full competition
Equatorial Guinea	Monopoly	Monopoly	Full competition	Full competition
Eritrea	Partial competition	Partial competition	Partial competition	Partial competition
Ethiopia	Monopoly	Monopoly	Monopoly	Monopoly
Gabon	Full competition	Full competition	Full competition	Full competition
Gambia	Full competition	Full competition	Full competition	Full competition
Ghana	Full competition	Full competition	Full competition	Full competition



Visualize data by interactive maps and charts, reports (HTML, PDF, Excel)