

ITU Global Symposium for Regulators (GSR-18) Regulatory Associations Meetings

The ITU Regional Regulatory Associations (RAs) Portal

ITU Telecommunication Development Bureau (BDT)

Regulatory and Market Environment Division (RME)



The main goal of the ICT REGIONAL REGULATORY ASSOCIATIONS PORTAL (RAs) is to meet the needs of RAs by sharing information from all the regions on activities and initiatives implemented by RAs.

This portal also highlights key activities and findings from ITU publications, studies, research, ITU Study Groups, and data and analysis.

ITU Regional Regulatory Associations Portal



ASSOCIATIONS PORTAL

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REGULATORY ASSOCIATIONS



- - Arab States
 - Asia and Pacific
 - Europe and CIS
- The Americas

REGULATORY ASSOCIATIONS @ ITU



ITU Global Symposium for Regulators (GSR) Regulatory Associations

The annual Regulatory Associations (RA) Meetings bring together Regulatory Associations from around the world to discuss key issues, best practices and share Regulatory Association information and experiences with peers. It is organized annualy during the Global Symposiun for Regulators.

KEY RAS ACTIVITIES AND INITIATIVES:



- Usage in the digital Ecosystem
- ICT Infrastructure and Market Structure
- * Tariffs and Affordability
- Institutional Framework

ITU RESOURCES



- F ICT Regulatory & Market environment
- International Mobile Roaming Resources Portal
- . The ICT Regulatory Tracker
- * ITU ICTEye database
- ITU Statistics and Indicators
- * ITU Interactive Transmission Mans
- . ITU-D Study Groups
- * ITU-T Study Groups
- TU-R Study Groups
- ITU Telecommunication Development Resources
- ITU Telecommunication Standardization Resources
- * ITU Radiocommunication Resources

REGULATORY ASSOCIATIONS: ADDRESS BOOK



Regional Regulatory Associations in Europe and CIS **YOU ARE HERE** HOME > ITU-D > REGULATORY & MARKET ENVIRONMENT > REGIONAL REGULATORY ASSOCIATIONS IN SHARE ** **EUROPE AND CIS** **ARCTEL-CPLP - Association of Communications and Telecommunications Regulators of the Community of Portuguese Speaking Countries, Lisboa, Portugal ** **BEREC - Body of European Regulators for Electronic Communications, Brusele, Belgium ** **CEPT - European Conference of Potati and Telecommunications Administrations, Valetta, Malta ** **ECS - European Commission, Brusele, Belgium ** **ETSI - The European Telecommunications Standards Institute, Sophia Antipolis, France ** **FRATEL - Réseau Francophone de la Régulation des Télécommunications, Paris, France ** **IRACEL - Réseau Francophone de la Régulation des Télécommunications (Morcore Pussian Federation **) ***RECL - Récencia Commonwealth in the Field of Communications (Morcore Pussian Federation **)





Regional Regulatory Associations in Africa

YOU ARE HERE HOME > ITU-D > REGULATORY & MARKET ENVIRONMENT > REGIONAL REGULATORY ASSOCIATIONS IN AFRICA

- ARICEA The Association of Regulators of Information and Communications for Eastern and Southern Africa
- ARTAC Assemblée des régulateurs des télécommunications de l'Afrique Centrale
- ATU African Telecommunication Union, Nairobi, Kenya
- CEMAC Commission de la Communaute Economique, Bangui, Central African Republic
- COMESA Common Market for Eastern and Southern Africa, Lusaka, Zambia
- CRASA The Communication Regulators' Association of Southern Africa, Gaborone, Botswana
- » EAC East African Community, Arusha, Tanzania
- EACO The East African Communications Entities Organisation, Kigali, Rwanda
- ▶ ECCAS Economic Community of Central African States, Libreville, Gabon
- ECOWAS Economic Community of West African States, Abuja, Nigeria
- » SADC Southern African Development Community, Gaborone, Botswana
- UEMOA West African Economic and Monetary Union, Ouagadougou, Burkina Faso
 WATRA The West African Telecommunication Regulators Assembly

Regional Regulatory Associations in Arab States

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- AREGNET Arab Regulators Network of telecommunications and information technologies, Algiers, Algeria
- EMERG Euro-Mediterranean Telecom Regulators, Cairo, Egypt
- GCC Gulf Cooperation Council, Riyadh, Saudi Arabia
- · LAS League of Arab States, Cairo, Egypt

Regional Regulatory Associations in Asia and Pacific

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- APT Asia-Pacific Telecommunity, Bangkok, Thailand
- PITA Pacific Island Telecommunication Association, Suva, Fiji
- SATRC South Asian Telecommunication Regulators' Council, Bangkok, Thailand

REGULATORY ASSOCIATIONS @ ITU

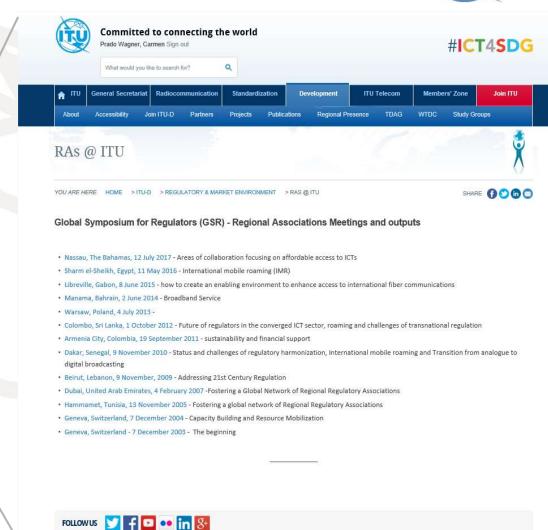






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KEY RAS ACTIVITIES AND INITIATIVES





Regional Regulatory Associations - Key Activities and Initiatives



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KEY RAS ACTIVITIES AND INITIATIVES:



- Usage in the digital Ecosystem
- ICT Infrastructure and Market Structure
- Tariffs and Affordability
- Institutional Framework

USAGE IN THE DIGITAL ECOSYSTEM

- BEREC One year of enforcing Net Neutrality across Europe and moves forward on monitoring business markets
- EC Digital single market: Bringing down barriers to unlock online opportunities
- ECTEL Proposed Changes to the Universal Service Fund in the ECTEL
- CITEL Guide of best regulatory practices to combat fraud of subscription based television signals

ICT INFRASTRUCTURE AND MARKET STRUCTURE

- CANTO Project: on Broadband Infrastructure and Public Awareness in the Caribbean
- CRASA Infrastructure Sharing practices in the SADC and development of the SADC ICT and Broadcasting Infrastructure Sharing Guidelines
- CTU Caribbean Regional Communications Infrastructure Programme
- SADC ICT & Telecommunication infrastructure: Regional Infrastructure **Development Master Plan**

TARIFFS AND AFFORDABILITY

- COMTELCA Promotion of affordable Internet Access in Latin America
- ECTEL Retail Tariff Consultancy 2018
- CRASA Regional Mobile Telephony Roaming Task Team
- ECTEL Draft Mobile Electronic Communications (Roaming Services) Bill and Regulations

INSTITUTIONAL FRAMEWORK

- COMESA Regional e-Government framework
- CTU Caribbean ICT Roadshow













ITU RESOURCES GUIDE



ITU RESOURCES



- ICT Regulatory & Market environment
- International Mobile Roaming Resources Portal
- Digital Ecosystem portal
- The ICT Regulatory Tracker
- ITU ICTEye database
- ITU Statistics and Indicators
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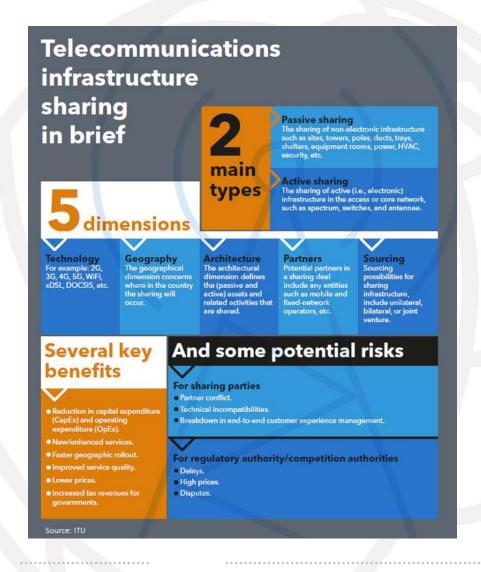
ITU-D Regulation Portals

ITU Telecommunication Development Bureau (BDT)

Regulatory and Market Environment Division (RME)

INFRASTRUCTURE DEVELOPMENT AND SHARING





The increase in telecommunication/ICT infrastructure development and sharing has allowed a more efficient roll-out of next-generation networks worldwide.

ITU is working on technical, economic, policy and regulatory research and collecting data on the evolution of infrastructure development worldwide.

ITU INFRASTRUCTURE DEVELOPMENT **PORTAL**



SHARE (80000

for the deployment of broadband in

tructure sharing strategies to pro-

Achieving an enabling policy and regulator

Identifying existing platforms (transmissi

and contribution networks) suitable for infrastructure sharing.

Enabling competition in access netwo

and providing positive environmental

· Providing positive incentives to roll out to

estment), but should not be used as a artificial barrier to entry for new market

Pricing should provide for the right

Improving quality of service (QoS) especially in the rural areas Ensuring positive impact on the whole and retail information and communication technology (ICT) and broadcasting services

GULATORY STRATEGIES FOR IS



Data and Analysis

- ICTEye Database -Infrastructure Sharing data
- All About Infrastructure Sharing Brochure ITU 2018

- ITU Interactive **Broadband Maps**
- Status of the transition to Digital Terrestrial Television Broadcasting: Data Miner
- Conformity and Interoperability
- Spectrum Management
- Broadcasting

ITU Infrastructure Development Portal efficient roll-out of next-generation networks worldwide. ITU is working on technical, economic, policy ICT and Infrastr Infrastructure development based on sharing offers numerous business opportunities with strategies ITU/SADC -ICT and Broadcastin designed to make the use of passive and active infrastructure more efficient and also contributes to Does infrastructure sharing result in lower prices Status of the transition to Digital Terrestr for end-users? GSR08 Best Practice Guidelines on inn ICTEVE Database - Infrastructure Sharing data -2017 rnload the All About Infrastructure Sharing Brochure ITU 2018 (soon available ITU INTERACTIVE TRANSMISSION MAPS national backbone connectivity (optical fibres, microwave links and satellite earth stations) as well as of other key metrics of the ICT sector

International **Experiences**

Research and **Activities**

- ITU Report on ICT Infrastructure
- ICT and Infrastructure

for Infrastructure Sharing

- **Business Planning Toolkit**
- requirement for 5G
- ITU Study Groups Work (e.g. ITU-D SG 1 Strategies and policies for the deployment of broadband in developing countries)

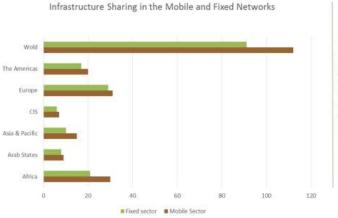
Regulatory Strategies

ALL ABOUT INFRASTRUCTURE SHARING 2018



Is infrastructure sharing practiced in your country?

Infrastructure sharing is more and more applied in all regions for both mobile and fixed networks. The ITU Survey shows that infrastructure sharing occurs more in the mobile (126 out of 140 countries applying) than the fixed sector (91 out of 112 countries applying).



It is interesting to note that in mobile networks, infrastructure sharing is mostly based on commercial agreements rather than on a specific regulatory mandate.

Does infrastructure sharing result in lower ICT service prices for end-users?

In most countries, infrastructure sharing could result in lower prices for end-users, as shown in green in the graph.

However, several countries in all regions reported that data is not available or that NRAs do not monitor prices.



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ITU INTERNATIONAL MOBILE ROAMING (IMR) PORTAL

As part of Mr Brahima Sanou, BDT Director's Initiative LET'S ROAM THE WORLD

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IMR STRATEGIC GUIDELINES



The IMR Strategic Guidelines were developed with inputs from stakeholders during the ITU Consultation Process (held during 2016 and 2017), including from regional regulatory associations (RAs), international organizations, consumer and private sector associations. The aim of this report is to build the foundation for harmonized guidelines around the world to improve the delivery of IMR services for the benefit of consumers, to reduce what are generally perceived as high mobile roaming retail prices, and to enhance efficiency and transparency of retail roaming prices and services.



"I am sure that these IMR Strategic Guidelines will become an important tool that enables all stakeholders to have a common understanding of the complexities of IMR to foster harmonized solutions at national regional and international level. We all need to continue working together to make ICTs even more affordable for all, including when roaming the world."

Mr Brahima Sanou, Director,
ITU Telecommunication Development Bureau (BDT)



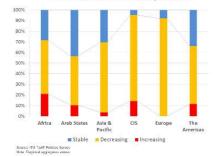
Download the ITU IMR Strategic Guidelines

ALL ABOUT IMR 2018



This brochure presents a quantitative analysis of data collected by ITU on International Mobile Roaming (IMR) regulatory and policies strategies, as well as a brief introduction to the future of IMR8 in particular on roaming for Internet of Thing (IoT) and Machine-to-Machine (M2M) communications.

IMR VOICE, SMS & DATA Retail price, 2017



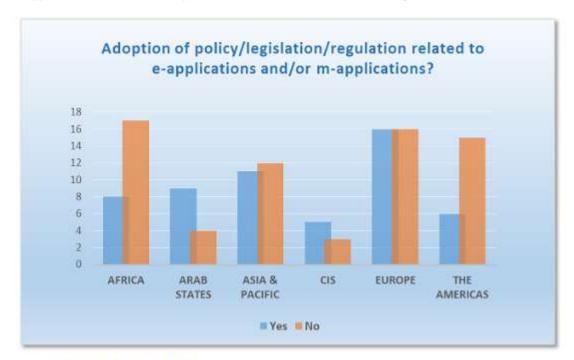
The trend for IMR voice and data retail prices, over the past three years, seems to be decreasing in all regions (yellow), as reported by NRAs. However, in Africa, 6 countries out of 28 have reported that IMR voice prices are still increasing, in teryou and 43 countries reported that IMR direct converses of considerable, fedinates the Suprement reliable CIVI UMR Discriment.

ITU DIGITAL ECOSYSTEM PORTAL

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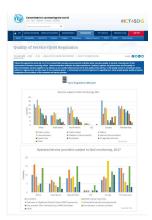
ADOPTION OF SPECIFIC REGULATION

55 over 122 countries reported in 2016 the adoption of policies, regulation/legislation related to e-applications and m-applications and their relationship with and across other sectors of the economy.



Source: ITU Regulatory Survey 2016, ICTEye

QUALITY OF SERVICE (QoS) REGULATION PORTAL



OOS MANUAL

The QoS Regulation Manual serves as a one-stop shop for QoS regulation in ICTs. It refers to different standards and regulatory practices from various regions and countries worldwide.

It is intended to be used as a guiding tool for telecommunication/ICT regulatory agencies or ICT Administration (e.g., ICT Ministry) in charge of Quality of service (QoS) and Quality of Experience (QoE) parameters and measurements, as defined by the ITU-T, as well as enforcement mechanisms







CONTENT



- 2. Quality of Service (QoS) framework (technical)
- 3. QoS Regulatory Framework Role of NRAs
- 4. Traffic Management
- 5. QoS Parameters and KPIs
- 6. Broadband QoS measurements
- 7. Economic principles of QoS regulation
- 8. Network neutrality and its regulation
- 9. Consumer Protection and Privacy
- 10. QoS enforcement
- 11. Conclusion and guidelines

EVENTS AND TRAINING

Training:

ITU Academy: Quality of service training programme



RESOURCES

- SADC QoS country experiences (2017)
- WATRA QoS country experiences (2017)
- BEREC guidelines, NN regulatory assessment methodology (2017)
- ITU-T Study Group 12 on Performance, QoS and QoE (Work Programme) **Technical Recommendations**

Regulatory and Market Environment

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Global CX Regulatory RLD

Outlook 2017
The ITU Global Initiative on International Mobile
Roaming (IMR) and the ITU IMR Resources Portal
A new landmark publication of ITU released!













GSR

Since its launch in 2000, the annual Global Symposium for Regulators (GSR) provides a unique venue for regulators and policy-makers from both developed and developing countries to meet and exchange views and experiences. The meeting fosters an open dialogue between regulators and industry.

- GSR18: New Regulatory Frontiers
 9-12 July 2018, Geneva, Switzerland
- GSR17: Living in a World of Digital Opportunities 11-14 July 2017, Nassau, Bahamas
- · GSRs Best Practice Guidelines and documents

PUBLICATIONS & STUDIES

We produce a number of flagship reports including Trends in Telecommunication Reform focusing on best practice regulation to enable ubliquitous broadband markets to thrive. Various thematic studies provide valuable viewpoints and strategies on multiple issues that affect regulation and economics in a converged broadband world.

- · Trends in Telecommunication Reform Series
- ITU Thematic Reports Series
- · Publications on Economics & Finance
- EUIPO-ITU Report: The economic cost of IPR Infringement in the Smartphones Sector
- Global ICT Regulatory Outlook 2017 NEW!
- · Other publications

Modell us

The main purpose of our work is to provide the tools for an effective policy, legal and regulatory environment for the ICT sector.

Quick links

- We convene global and regional forums to discuss global trends in regulation for Sector Members and other national and international stakeholders, through organizing the Global Symposium for Regulators (GSR) as well as strategic dialogues on topical policy, legal, regulatory, as well as on economic and financial issues and market developments.
- We provide data, research and analysis and tools to support our members in defining, elaborating, implementing and reviewing transparent, coherent and forward-looking strategies, policy, legal and regulatory frameworks as well as in moving towards evidence-based decision-making.
- We provide knowledge exchange tools and platforms to enable inclusive dialogue and enhanced cooperation to help countries achieve a more inclusive information society and to raise national and regional awareness about the importance of an enabling environment.
- We provide direct assistance to countries and regions on an enabling environment for smart connected societies.

HIGHLIGHTS



ONLINE TOOLS

We have designed and are constantly enhancing a series of resource and collaborative platforms for regulators, policy makers and the broader audience.

- ICT Regulatory Tracker NEW!
- · Digital Ecosystem portal
- · QoS Regulation portal
- · International Mobile Roaming Resources
- · ICT Regulation Toolkit
- ICT Ew
- · ITU ICT Regulatory Decisions Clearinghouse, ICTdec
- · G-REX, the Regulators' Exchange

SURVEYS

In order to build an extensive knowledge base, inform analysis, and facilitate decision making, we conduct annual surveys on the most pressing issues in the area of ICT policy, regulation and finance.

- · ITU Telecommunication/ICT Regulatory Survey
- · ITU Tariff Policies Survey

Events

Links

 ITU Regional Economic Dialogue of Telecommunications/ICTs

Mexico DF, Mexico 4-6 September 2018

 ITU Capacity Building Programme on Quadplay.
 Costing and Pricing of Infrastructure Access for Arab Region

Rabat, Morocco 9-12 July 2018





International Telecommunication Union

Committed to connecting the world