

# ITU Publications

## Catalogue

### 2023



# Catalogue of ITU publications

## Dear Customer,

Thank you for your trust in ITU publications and for continuing to support our work as a leading international publisher of information and communication technology (ICT) reports and data.

Since our founding some 150 years ago, ITU has been sharing information about communication systems to people around the world. Today, our range of publications and global customer base continue to grow strongly, and we value your interest in our products.

ITU has a range of products that makes us unique in the publishing world. In this catalogue, you'll find titles on topics ranging from spectrum management and satellite communications to ICT statistics and policy and development reports. So whether you're a broadcast engineer, an ICT regulator, a computer systems specialist, a telecoms professional, a business analyst or a student of ICTs, you're sure to find something of interest.

Today, digital technologies are implicit and used in nearly every aspect of our lives and the economy, and ITU's activities, work and research are broadening. You'll find new titles on topics such as cybersecurity, e-health, using ICTs to combat climate change, the effective deployment of ICTs in emergency communications, next-generation technical standards, and much more.

Most ITU publications are now available in electronic format and can be purchased and downloaded directly from the **ITU Bookshop**. You can order publications in print or CD-ROM format online or use the order form included in this catalogue.

ITU publishes content in all six official UN languages – Arabic, Chinese, English, French, Russian and Spanish – and many (though not all) titles are available in multilingual versions. This catalogue also contains useful information on pricing discounts, methods of payment and related conditions of sale, as well as a list of whom to contact should you need additional support.

Keep up-to-date with ITU publications at [www.itu.int/hub/pubs/](http://www.itu.int/hub/pubs/) – our pages are updated regularly, with information on new publications posted as soon as they become available. You can also connect to the weekly update of this catalogue at [www.itu.int/dms\\_pub/itu-s/opb/gen/S-GEN-CAT.OL-2022-PDF-E.pdf](http://www.itu.int/dms_pub/itu-s/opb/gen/S-GEN-CAT.OL-2022-PDF-E.pdf)




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# Catalogue of ITU publications

## Collection of the Basic Texts of the International Telecommunication Union adopted by the Plenipotentiary Conference

2003

A reference document containing: a) the Constitution and the Convention as amended by plenipotentiary conferences; b) General Rules of Conferences, Assemblies and Meetings of the Union; c) the full text of the Optional Protocol on the compulsory settlement of disputes relating to the Constitution, the Convention and the Administrative Regulations; d) the full text of all decisions, resolutions and recommendations in force; e) a list of abrogated decisions, resolutions and recommendations.

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# Overview About ITU

**ITU is the United Nations specialized agency for information and communication technologies – ICTs.**

We allocate global radio spectrum and satellite orbits, develop the technical standards that ensure networks and technologies seamlessly interconnect, and strive to improve access to ICTs to underserved communities worldwide.

ITU is committed to connecting the world. Through our work, we protect and support everyone's fundamental right to communicate.

Today, ICTs underpin everything we do. They help manage and control emergency services, water supplies, power networks and food distribution chains. They support health care, education, government services, financial markets, transportation systems, e-commerce platforms and environmental management. And they allow people to communicate with colleagues, friends and family anytime, and almost anywhere.

With the help of our global membership, ITU brings the benefits of modern communication technologies to people everywhere in an efficient, safe, easy and affordable manner.

We're unique among UN agencies in having both public and private sector membership. ITU's global membership includes **193 Member States** as well as some **900 companies, universities, and international and regional organizations**.

In an increasingly interconnected world, ITU is the single global organization embracing all players in this dynamic and fast-growing sector.

Every time you turn on your radio or television, hop on a plane, call home on your mobile phone, access the Internet or find your location with your smartphone, tablet or personal computer, every time you watch the weather forecast or explore the Earth through satellite images, you are using one of the vital services that the ITU is coordinating worldwide.

ITU's Radiocommunication Sector (ITU-R) is responsible for management of the radio-frequency spectrum and satellite orbit resources. With the relentless expansion of wireless services worldwide, all services relying on radiowaves are competing for a share of the radio-frequency spectrum to support new applications, growing user numbers and exploding traffic. The importance and relevance of ITU-R work is therefore increasing every day.

ITU standards (called Recommendations) are fundamental to the operation of today's advanced wireless, broadband and multimedia technologies. ITU's Telecommunication Standardization Sector (ITU-T) plays a crucial role in defining the core transport and access technologies that underpin communications networks around the world; an estimated 95 per cent of international communications traffic runs over optical transport networks built in conformance with ITU standards.

ITU-T releases over 300 standards each year covering everything from core network functionality to voice and video compression that allow systems to work and interoperate both locally and globally. If your product or service requires any kind of international buy-in, you need to be part of the standardization discussions in ITU's Telecommunication Standardization Sector (ITU-T).

Whether you are interested in entering or expanding your presence in emerging markets, demonstrating global ICT leadership, or learning how to put good policy into practice, in an increasingly networked world, expanding access to ICTs globally is in everybody's interest.

ITU's Telecommunication Development Sector (ITU-D) implements projects that make a difference in the lives of people around the world and offer sustainable and innovative solutions for achieving global development through ICTs. ITU-D also regularly publishes the industry's most comprehensive and reliable ICT statistics, and an annual overview of global regulatory trends in this fast-evolving sector.

# Our vision Committed to connecting the world

Virtually every facet of modern life – from transport to entertainment and business, at work and at home – depends on ICTs.

The global telecommunication system is the largest and most sophisticated engineering feat ever created. You use communication systems every time you log on to the Internet, send an e-mail or SMS, consult satellite navigation systems, listen to the radio, watch television, travel by plane or ship – and of course, every time you use a mobile phone or computer.

Today, there are over eight billion mobile phone subscriptions and over five billion mobile phone subscribers with tens of millions of new Internet users every year. Hundreds of millions of people around the world use satellite services – whether getting directions from a satellite navigation system, checking the weather forecast, watching television, or surfing the web from remote and isolated areas. Millions more use ITU video compression standards every day via their mobile phones and cameras.

ITU is at the heart of the ICT sector, brokering agreement on technologies, services, and allocation of global resources like radio-frequency spectrum and satellite orbital frequencies, to create a seamless global communications system that's robust, reliable, and constantly evolving.

- ITU technical standards, protocols and international agreements are the essential elements underpinning the global communications system, including for fixed backhaul, mobile and satellite networks.
- ITU coordinates the world's satellites through the management of spectrum and orbital frequencies, which bring you television, vehicle GPS

navigation, maritime and aeronautical communications, weather information and online maps, and enable communications in even the most remote parts of the planet.

- Through optical transport and broadband access networks, the vast majority of Internet connections and voice calls are facilitated by ITU standards.
- ITU helps support communications in the wake of disasters and emergencies through on-the-ground assistance, dedicated emergency communications channels, technical standards for early-warning systems, and practical support for building disaster resilient telecommunications infrastructure.
- ITU collaborates closely with its Member States and industry to define the new technologies that will support tomorrow's networks and services (e.g. IMT-2020 or 5G networks and beyond, to 6G).
- ITU's work helps power the mobile revolution, forging the technical standards and policy frameworks that make mobile and broadband possible.
- ITU works with public and private sector partners to ensure that ICT access and services are affordable, equitable and universal.
- ITU empowers people around the world through technology education and training, and engages with members from academia to build networks and tap the power of tomorrow's innovators.

## **General Secretariat**

The mission of the ITU General Secretariat is to provide high-quality and efficient services to the membership of the Union. The General Secretariat manages the administrative and financial aspects of the Union's activities, including the provision of conference services, planning and organization of major meetings, information services, security, strategic planning, and corporate functions such as communications, legal advice, finance, personnel, procurement, and internal audit.

The General Secretariat is the unit responsible for ongoing management of the activities around the World Summit on the Information Society (WSIS) process, including the annual WSIS Forum, and also manages activities in support of ITU Council and four-yearly Plenipotentiary Conferences.

## **Radiocommunication**

Satellites enable phone calls, television and radio programmes, navigation and online maps. Space services are vital in monitoring and transmitting changes in such data as ocean temperature, vegetation patterns and greenhouse gases – helping us predict famines, the path of a hurricane, or how the global climate is changing. The explosive growth of wireless communications, and particularly wireless broadband, demonstrates the need for global solutions to address the need for additional radio spectrum allocations and harmonized standards to improve interoperability.

ITU's Radiocommunication Sector (ITU-R) coordinates this vast and growing range of radiocommunication services, as well as the international management of the radio-frequency spectrum and satellite orbital frequencies. An increasing number of players need to make use of these limited resources, and participating in ITU-R conferences and study group activities – where important work is done on mobile broadband communications and broadcasting technologies such as Ultra HDTV and 3D TV – is becoming an ever-higher priority for both governments and industry players.

## **Standardization**

ITU standards (called Recommendations) are fundamental to the operation of today's advanced wireless, broadband and multimedia technologies. ITU's Telecommunication Standardization Sector (ITU-T) plays a crucial role in defining the core transport and access technologies that underpin communications networks around the world; an estimated 95 per cent of international communications traffic runs over optical transport networks built in conformance with ITU standards.

In a typical year, ITU will produce or revise upwards of 150 standards covering everything from core network functionality to voice and video compression that allow systems to work and interoperate both locally and globally. If your product or service requires any kind of international buy-in, you need to be part of the standardization discussions in ITU's Telecommunication Standardization Sector (ITU-T).

## **Development**

Whether you are interested in entering or expanding your presence in emerging markets, demonstrating global ICT leadership, or learning how to put good policy into practice, in an increasingly networked world, expanding access to ICTs globally is in everybody's interest.

ITU's Telecommunication Development Sector (ITU-D) implements projects that make a difference in the lives of people around the world and offer sustainable and innovative solutions for achieving global development through ICTs. ITU-D also regularly publishes the industry's most comprehensive and reliable ICT statistics, and an annual overview of global regulatory trends in this fast-evolving sector.



# Why be a part of ITU?

The ICT industry is undergoing rapid change. Strategic cooperation and understanding between all stakeholders are vital when decisions can have huge political, social and financial consequences.

ITU offers a unique, neutral, global platform to come together and:

- share ideas and knowledge, and exchange best practice
- agree on global technical standards in a consensus-based and transparent environment
- engage directly with governments, regulators and industry leaders
- establish fruitful partnerships
- influence the shape of your industry
- ensure that your products are safe, reliable, globally compatible and future-proof
- benefit from the world's most comprehensive, reliable ICT statistics
- gain access to top-level ICT publications
- plug into local knowledge through ITU's extensive network of regional and area offices.



## Global meeting place

ITU regularly hosts global and regional events and workshops that are open to members and sometimes also to non-members. Considered by many as the global gathering place for the ICT sector, ITU is famous for events like the WSIS Forum, AI for Good Summit, ITU Digital World, which bring together the most influential representatives of government and industry to exchange ideas and knowledge for the benefit of all. Digital World is a key platform for helping countries develop and nurture new local, regional and international business opportunities.

By connecting the world and fulfilling everyone's fundamental right to communicate, we strive to make the world a better and safer place.

## Developing skills and knowledge

'Connecting the unconnected' is not just a question of putting infrastructure in place. Networks need to be supported by effective regulatory strategies and policies and an understanding of future trends: technical, social and economic. ITU brings partners together to discuss these issues, share insights and best practice, and lay the groundwork for long-term industry growth. ITU publishes regular reports highlighting important developments and also has its own ITU Academy programme, which trains technicians, regulators, administrators and local communities in how best to harness the power of ICTs.

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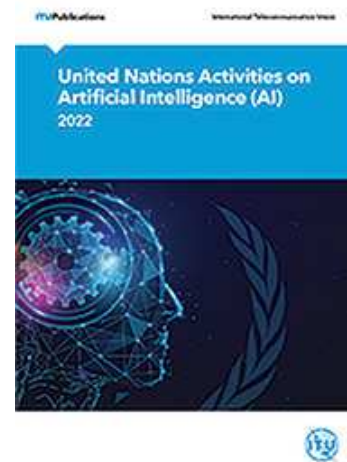
## 1.1 General

### United Nations Activities on Artificial Intelligence (AI)

2022

In this latest edition of the UN Activities Report on artificial intelligence, you will see UN entities wrestling with big questions about how to harness AI to help mitigate climate change, transform education, fight hunger, eliminate poverty, and so much more. Previous editions 2021, 2020, 2019 and 2018 are also available.

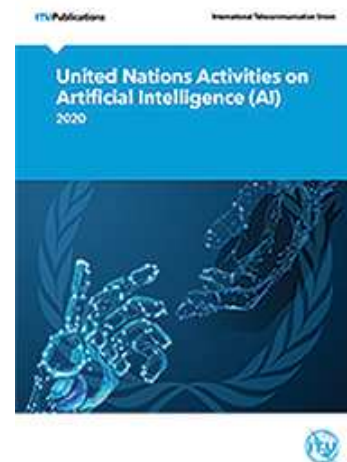
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### United Nations Activities on Artificial Intelligence (AI)

2020

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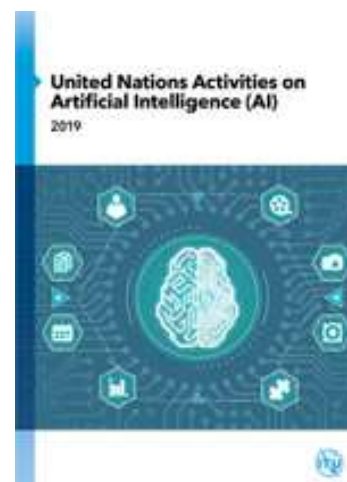
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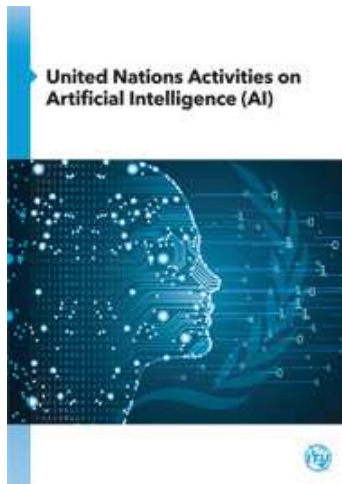
### United Nations Activities on Artificial Intelligence (AI)

2019

A joint-effort between ITU and over 35 other UN agencies and bodies, and all partners of 2019's AI for Good Global Summit, this report provides information about the diverse and innovative activities related to artificial intelligence (AI) across the UN system to meet many of our world's increasingly urgent challenges, from responding to humanitarian crises to tackling climate change. Free of charge.

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## United Nations Activities on Artificial Intelligence (AI)

A joint-effort between ITU and 32 UN agencies and bodies, all partners of 2018's AI for Good Global Summit, this report provides information about the diverse and innovative activities related to artificial intelligence (AI) across the UN system. It outlines how AI is being used to fight hunger, mitigate climate change, or advance health for all and we see how UN agencies experiment with AI to improve response to disease outbreaks, monitor energy use in real-time, and facilitate the transition to smart sustainable cities.

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## Guidelines for Industry on Child Online Protection

2020

The guidelines for industry aim at supporting industry players in the development of their internal COP policies. They highlight key areas, such as integrating child rights considerations into all appropriate corporate policies and management processes; developing standard processes to handle child sexual abuse material; creating a safer and age-appropriate online environment; educating children, carers and educators about children's safety and the responsible use of information and communication technologies (ICTs); and promoting digital technology as a mode for increasing civic engagement.

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## Guidelines for Policy Makers on Child Online Protection

2020

The COP Guidelines for policy-makers offer national governments and policy-makers a user-friendly and flexible framework that supports the development of targeted and effective measures for child online protection at the national level.

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## Online safety activity book - Work with Sango

2020

The workbook, for children aged 9-12 years old, contains educational activities, which you can complete to learn about your rights online, and also risks to your safety online.

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### Children Online Protection for Children - Online with Sango

2020

The storybook, for children under 9, presents six scenarios with questions to think about and answer to learn about rights and safety online.

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### Guidelines for Parents and Educators on Child Online Protection

2020

The COP Guidelines for parents and educators offer parents, carers, guardians and educators support for a better understanding of online risks and harms for children, proposing concrete guidance and tools on how to support children and young people so that they can fully benefit from the opportunities that the digital environment offers.


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### ITU News Magazine - Tech serving people and the planet

2022

Read the latest ITU News Magazine for digital solutions to all 17 Sustainable Development Goals plus highlights from ITU's Facts and Figures 2021.

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### ITU News Magazine - Women leading in radiocommunications and space

2021

Discover the ITU News Magazine edition featuring women leaders, ITU initiatives promoting gender balance and advice for anyone pursuing a career in technology and innovation.

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## ITU News Magazine - Digital financial inclusion

2021

Digital financial inclusion is trending on the latest issue of ITU News. Fintech fiends, come forth!



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## 1865 Paris: The Birth of the Union

2015

On 17 May 1865, after two-and-a-half months of negotiations, the first real International Telegraph Convention was signed in Paris by its 20 founding members, thus creating the International Telegraph Union (predecessor of ITU). This first international convention provided a framework to standardize telegraphy equipment, set uniform operating instructions and laid down common international tariff and accounting rules. This publication describes the environment that led to the founding of ITU in 1865 and provides a fascinating look at the world of communications technologies 150 years ago and how many of the challenges that led to its creation remain today.

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## ICT4SDG - Fast-forward progress - Leveraging tech to achieve the global goals

2017

See more on ICTs for a Sustainable World from this link



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## The ICT Opportunity for a Disability-Inclusive Development Framework

2013

This publication contributes to a better understanding of the extent to which ICTs can enable and accelerate the social and economic inclusion of persons with disabilities. It lists challenges that are still to be addressed while outlining concrete actions to be undertaken by each group of stakeholders and a set of indicators to help measure progress towards the achievement of a disability-inclusive post-2015 development agenda and framework. The report is the result of collaborative input from the UN Broadband Commission for Digital Development, the Global Initiative for Inclusive ICTs, the International Disability Alliance, ITU, Microsoft, the Telecentre.org Foundation and UNESCO. For more information, please visit [www.itu.int/accessibility](http://www.itu.int/accessibility).





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## 1.2 Conference Publications

### Collection of the Basic Texts of the International Telecommunication Union adopted by the Plenipotentiary Conference

2022

A reference document containing: a) the Constitution and the Convention as amended by plenipotentiary conferences; b) General Rules of Conferences, Assemblies and Meetings of the Union; c) the full text of the Optional Protocol on the compulsory settlement of disputes relating to the Constitution, the Convention and the Administrative Regulations; d) the full text of all decisions, resolutions and recommendations in force; e) a list of abrogated decisions, resolutions and recommendations.

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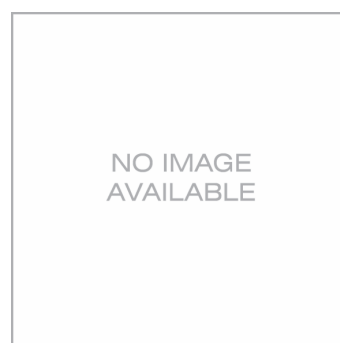
15

### Collection of the Basic Texts of the International Telecommunication Union adopted by the Plenipotentiary Conference

2019

A reference document containing: a) the Constitution and the Convention as amended by plenipotentiary conferences; b) General Rules of Conferences, Assemblies and Meetings of the Union; c) the full text of the Optional Protocol on the compulsory settlement of disputes relating to the Constitution, the Convention and the Administrative Regulations; d) the full text of all decisions, resolutions and recommendations in force; e) a list of abrogated decisions, resolutions and recommendations.

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## Final Acts of the Plenipotentiary Conference 2022

Decisions, Resolutions and Recommendations abrogated, adopted or revised by the Plenipotentiary Conference (Bucharest, 2022). The Constitution and the Convention have not been amended by the Plenipotentiary Conference (Bucharest, 2022).

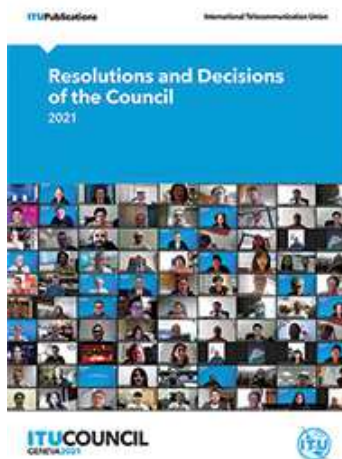
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## Resolutions and Decisions of the Council of the International Telecommunication Union 2022

This publication contains the complete text of the Council's Resolutions and Decisions. It also contains three appendices (numerical list of all Resolutions adopted by the Council since its creation, numerical list of all Decisions adopted by the Council since its creation and an analytical table). Downloadable versions in pdf or MS Word format are posted free of charge; hard-copy formats are sold, and are available to order.

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## Resolutions and Decisions of the Council of the International Telecommunication Union 2021



This publication contains the complete text of the Council's Resolutions and Decisions. It also contains three appendices (numerical list of all Resolutions adopted by the Council since its creation, numerical list of all Decisions adopted by the Council since its creation and an analytical table).

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## Resolutions and Decisions of the Council of the International Telecommunication Union

2020

This publication contains the complete text of the Council's Resolutions and Decisions. It also contains three appendices (numerical list of all Resolutions adopted by the Council since its creation, numerical list of all Decisions adopted by the Council since its creation and an analytical table). Hard copies available to pre-order in the coming weeks. Direct, free online access to e-versions available below.



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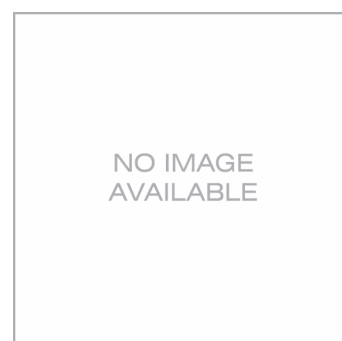


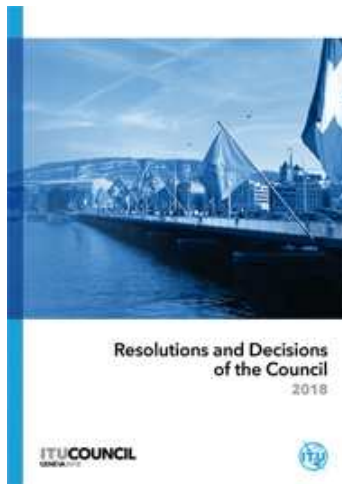
## Final Acts of the Plenipotentiary Conference

2018

Decisions, Resolutions and Recommendations abrogated, adopted or revised by the Plenipotentiary Conference (Dubai, 2018). The Constitution and the Convention have not been amended by the Plenipotentiary Conference (Dubai, 2018).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	127.-	E	42324	978-92-61-27141-1	578
		F	42325	978-92-61-27142-8	578
		S	42326	978-92-61-27143-5	578
		A	42327	978-92-61-27146-6	578
		C	42328	978-92-61-27145-9	578
		R	42329	978-92-61-27144-2	578







## Resolutions and Decisions of the Council of the International Telecommunication Union

2018

This publication contains the complete text of the Council's Resolutions and Decisions. It also contains three appendices (numerical list of all Resolutions adopted by the Council since its creation, numerical list of all Decisions adopted by the Council since its creation and an analytical table).




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	144.-	E	42318	978-92-61-27121-3	300
		F	42319	978-92-61-27122-0	300
		S	42320	978-92-61-27123-7	300
		A	42321	978-92-61-27126-8	300
		C	42322	978-92-61-27125-1	300
		R	42323	978-92-61-27124-4	300
	Free	E			
		F			
		S			
		A			
		C			
		R			



## Final Acts of the Plenipotentiary Conference

Busan, 2014




Decisions and Resolutions abrogated, adopted or revised by the Plenipotentiary Conference (Busan, 2014). The Constitution and the Convention have not been amended by the Plenipotentiary Conference (Busan, 2014).

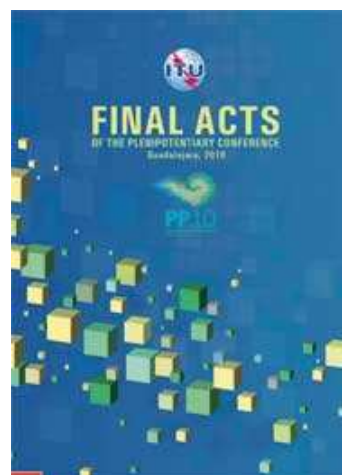
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	109.-	E	39116	978-92-61-14461-6	622
		F	39117	978-92-61-14462-3	622
		S	39118	978-92-61-14463-0	622
		A	39119	978-92-61-14466-1	622
		C	39120	978-92-61-14465-4	622
		R	39121	978-92-61-14464-7	622
	Free	E			
		F			
		S			
		A			
		C			
		R			
	109.-	E, F, S, A, C, R	39122	978-92-61-14477-7	

## Final Acts of the Plenipotentiary Conference

Guadalajara, 2010

Instruments amending the Constitution and the Convention of the International Telecommunication Union (Geneva, 1992) as amended by the Plenipotentiary Conference (Kyoto, 1994), the Plenipotentiary Conference (Minneapolis, 1998), the Plenipotentiary Conference (Marrakesh, 2002) and the Plenipotentiary Conference (Antalya, 2006).




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	104.-	E	36068	92-61-13211-1	466
		F	36069	92-61-13212-X	466
		S	36070	92-61-13213-8	466
		A	36072	92-61-13216-2	466
		C	36073	92-61-13215-4	466
		R	36071	92-61-13214-6	466
	Free	E			
		F			
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		R			
	104.-	E, F, S, A, C, R	36074	92-61-13227-8	

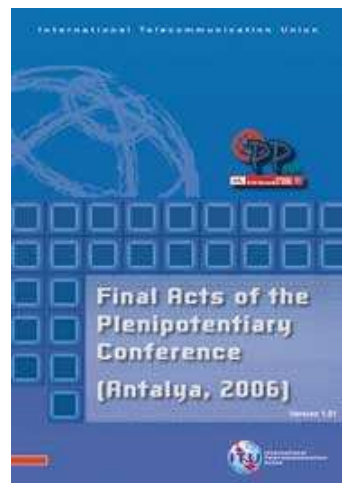


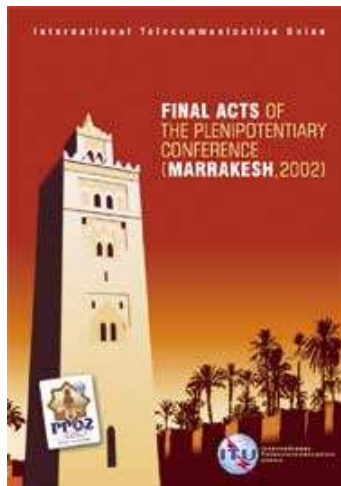
## Final Acts of the Plenipotentiary Conference

Antalya, 2006

Instruments amending the Constitution and the Convention of the International Telecommunication Union (Geneva, 1992) as amended by the Plenipotentiary Conference (Kyoto, 1994), the Plenipotentiary Conference (Minneapolis, 1998) and the Plenipotentiary Conference (Marrakesh, 2002).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	75.-	E	29897	92-61-11841-0	382
		F	29898	92-61-11842-9	382
		S	29899	92-61-11843-7	382
		A	29901	92-61-11846-1	382
		C	29902	92-61-11845-3	382
		R	29900	92-61-11844-5	382
	Free	E			
		F			
		S			
		A			
		C			
		R			
	75.-	E, F, S, A, C, R	29903	92-61-11857-7	





### Final Acts of the Plenipotentiary Conference

Marrakesh, 2002

Instruments amending the Constitution and the Convention of the International Telecommunication Union (Geneva, 1992) as amended by the Plenipotentiary Conference (Kyoto, 1994) and the Plenipotentiary Conference (Minneapolis, 1998).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	60.-	E	22935	92-61-10221-2	372
		F	22936	92-61-10222-0	372
		S	22937	92-61-10223-9	372
		A	22939	92-61-10226-3	368
		C	22940	92-61-10225-5	368
		R	22941	92-61-10224-7	368
	Free	E			
		F			
		S			
		A			
		C			
	60.-	E, F, S, A, C, R	22938	92-61-10237-9	

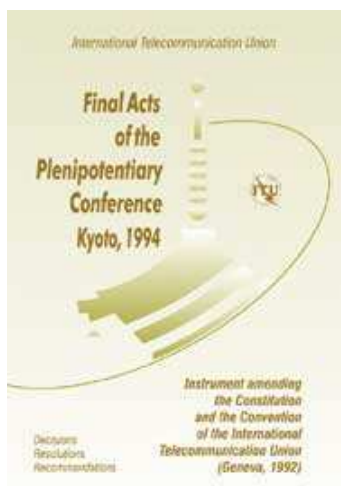


### Final Acts of the Plenipotentiary Conference

Minneapolis, 1998

Instruments Amending the Constitution and the Convention of the International Telecommunication Union (Geneva, 1992) as amended by the Plenipotentiary Conference (Kyoto, 1994).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	48.-	E	14099	92-61-07641-6	300
		F	14133	92-61-07642-4	300
		S	14134	92-61-07643-2	300
		A	14136	92-61-07646-7	303
		R	14138	92-61-07644-0	304
	Free	E			
		F			
		S			
		A			
		C			
	48.-	E, F, S	14135	92-61-07657-2	
		F, S, R	18689	92-61-07657-2	



### Final Acts of the Plenipotentiary Conference



Kyoto, 1994

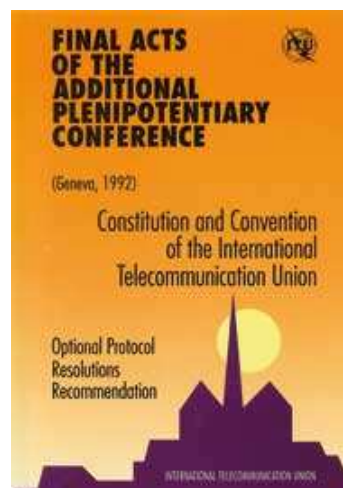
This includes the instruments amending both the Constitution and Convention of the ITU (Geneva, 1992), Signatures, Declarations and Reservations, and Decisions, Resolutions and Recommendations. Is also available on diskette for 30 CHF (article number 5408).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	35.-	E	5483	92-61-05521-4	140
		F	5482	92-61-05522-2	140
		S	5484	92-61-05523-0	140
		A	5485	92-61-05526-5	140
		C	5486	92-61-05525-7	272
		R	5487	92-61-05524-9	276
	Free	E			
		F			
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		C			
		E			
		F			

## Final Acts of the Additional Plenipotentiary Conference (APP-92)

Geneva, 1992




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	44.-	E	3218	92-61-04771-8	288
		F	3217	92-61-04772-6	288
		S	3219	92-61-04773-4	288
		A	3220	92-61-04776-9	
		C	3221	92-61-04775-0	
		R	3222	92-61-04774-2	
	Free	E			
		F			
		S			



## Final Acts of the World Conference on International Telecommunications (WCIT-12)

Dubai, 2012

The International Telecommunication Regulations (ITRs) will serve as the binding global treaty designed to facilitate international interconnection and interoperability of information and communication services, as well as ensuring their efficiency and widespread public usefulness and availability. The treaty sets out general principles for assuring the free flow of information around the world, promoting affordable and equitable access for all and laying the foundation for ongoing innovation and market growth.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	93.-	E	37779	978-92-61-14181-3	132
		F	37780	978-92-61-14182-0	132
		S	37781	978-92-61-14183-7	132
		A	37782	978-92-61-14186-8	132
		C	37783	978-92-61-14185-1	132
		R	37784	978-92-61-14184-4	132
	Free	E			
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		S			
		A			
		C			
	93.-	E, F, S, A, C, R	37785	978-92-61-14197-4	



## 1.3 Policy and Market Analysis

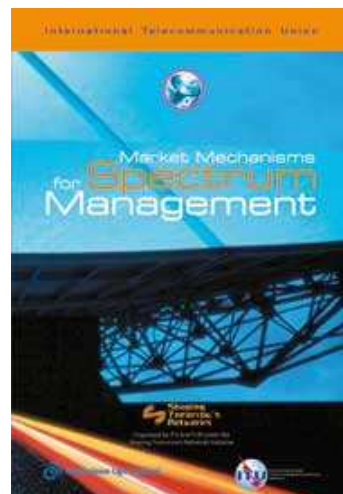
### Shaping Tomorrow's Networks

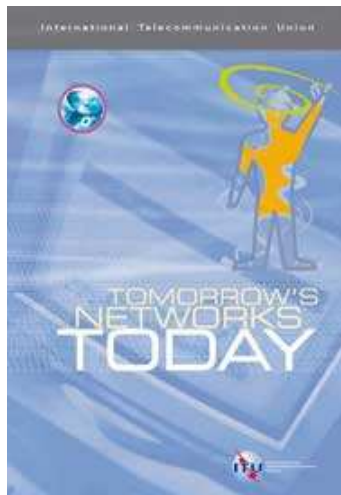
#### Market Mechanisms for Spectrum Management

2007

This brochure summarizes the results of a workshop on Market Mechanisms for Spectrum Management held in Geneva, Switzerland, from 22 to 23 January 2007. It was prepared by the Strategy and Policy Unit (SPU) on the basis of specially prepared background papers, case studies, input documents and contributions to the workshop. The enclosed CD-ROM contains the background materials and documents of the workshop, as well as a wide range of background resources related to spectrum management.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	68.-	E	30512	92-61-12131-4	





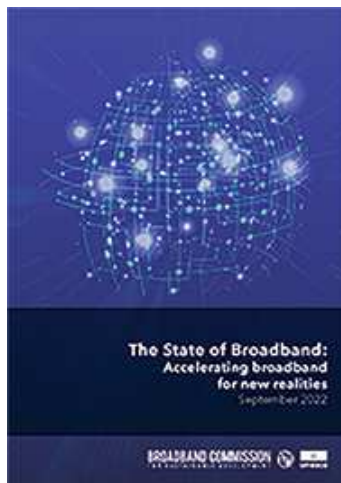
## Tomorrow's Networks Today

2005

"This report aims to highlight the most important issues and concerns raised during presentations and open discussions. It intends also to provide a concise overview of the benefits and drawbacks of a possible migration towards tomorrow's networks." This brochure summarizes the results of a workshop on Tomorrow's Networks Today, held in Saint Vincent (Aosta), Italy from 7 to 8 October 2005. It was prepared by the Strategy and Policy Unit (SPU) on the basis of specially prepared case studies, input documents and contributions to the workshop. The CD-Rom contains the background materials and documents of the workshop as well as a wide range of background resources related to tomorrow's networks.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	65.-	E	28664	92-61-11641-8	

## Broadband Commission



## The State of Broadband 2022: Accelerating broadband for new realities

2022

The ITU/UNESCO Broadband Commission's flagship State of Broadband Report is a unique, global snapshot of broadband network access and affordability. Written through a consensus-driven framework and drawing on the insights of the Commission's high-level, multistakeholder membership, the 2022 edition provides an overview of the latest trends in digital connectivity, including access, adoption and use in the new post-pandemic world. It further examines how the pandemic has accelerated the uptake of broadband and the adoption of digital services by individuals and businesses, the digitalization of governmental services, explores how much this will be sustained post-pandemic and what the consequences are for the design and quality of broadband networks, reviews progress made towards achieving the seven Broadband Advocacy Targets, examines approaches that can be taken to address the various digital gaps (demand and supply side) highlighted by the pandemic and considers steps to overcome challenges brought by the pandemic in terms of addressing the digital divide.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Importance of ICT and Global Cooperation for Future Epidemic Management

2022

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

## Strategies Towards Universal Smartphone Access

2022

How can we close the smartphone access gap and ensure greater digital inclusion? The Broadband Commission Working Group on Smartphone Access represents the first multi-stakeholder analysis to outline actionable recommendations to address smartphone access challenges. Read the report via this link.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## The State of Broadband 2020: Tackling digital inequalities - A decade for action

2020

The world in 2020 is in a state of flux. While much progress has been made globally over the past ten years in expanding access to, and adoption of, broadband infrastructure and services, significant challenges remain in tackling digital inequalities, addressing the current widespread impacts of the COVID-19 pandemic, and in accelerating efforts towards achieving the Sustainable Development Goals (SDGs) by 2030. This newly released ITU publication is also available for free download via the new ITU Publications Hub, where other titles with similar themes may be searched and accessed.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			





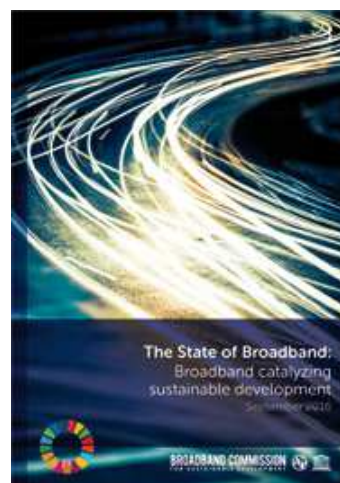
23

## The State of Broadband 2016: Broadband catalyzing sustainable development

2016

This report provides an update on progress towards the global targets of the ITU/UN-ESCO Broadband Commission for Sustainable Development and showcases the research and thought leadership of the Broadband Commission. It also provides a global snapshot of where the telecommunication/ICT industry stands with regards to fixed and mobile broadband deployment, affordability and usage, as well as the use of broadband for achieving development objectives. It will examine the use of new and upcoming technologies, such as 5G and the Internet of Things (IoT) for development.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	62.-	E	40736	978-92-61-21761-7	106
	Free	E			







## The State of Broadband 2015

2015

Every year, the ITU/UNESCO Broadband Commission for Digital Development publishes its 'State of Broadband' report to take the pulse of the global broadband industry and explore progress in broadband connectivity. This report provides a global snapshot of where the telecommunications/ICT industry stands with regards to fixed and mobile broadband deployment, affordability and usage, as well as the use of broadband for achieving development objectives, including the Millennium Development Goals (MDGs) and Sustainable Development Goals (SDGs). It evaluates the take-up and development of broadband around the world, and tracks the Broadband Commission's targets. It draws on the thought leadership of the Commission and its research into National Broadband Plans. It also offers a range of perspectives on how to boost the roll-out and adoption of broadband networks and services across developing countries.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	62.-	E	40065	978-92-61-16051-7	100
	Free	E			



## 21st Century Financing Models for Bridging Broadband Connectivity Gaps

2021

In our industry-wide and cross-stakeholder collaborative strive to build a truly inclusive and sustainable digital future, we are now at crossroads that demand foresight in decision-making, thinking beyond current approaches and business practices. Thanks to the joint aspirations of many leaders and organizations to achieve the UN SDGs with targeted investments into ICTs, we are now treading a path that may lead us to a future where digital inclusion is a given, and where digital technologies can bring to bear their full potential and contribute to improving the human condition.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

24

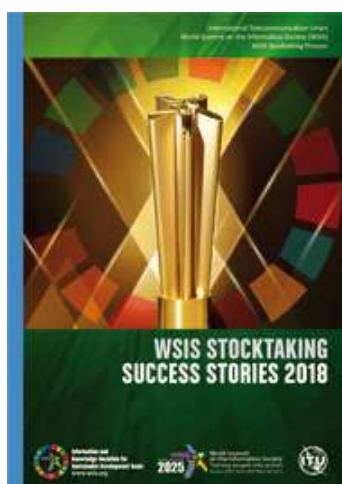
## Publications in the context of the World Summit on the Information Society (WSIS)

### WSIS Stocktaking: Success Stories 2018

2018

Each year, on the occasion of the WSIS Forum, 18 WSIS stakeholders are awarded WSIS Prizes, as a unique mark of global recognition for excellence in the implementation of WSIS outcomes. To this end, 18 projects are selected as the most successful stories worldwide, under each category, to serve as best-practice models to be replicated by other stakeholders interested in information and communication technologies (ICTs) for development.

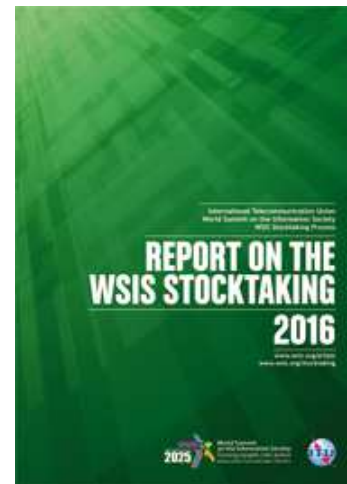
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Report on the WSIS Stocktaking 2016

2016

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Report on the WSIS Stocktaking 2013

2013

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			






25

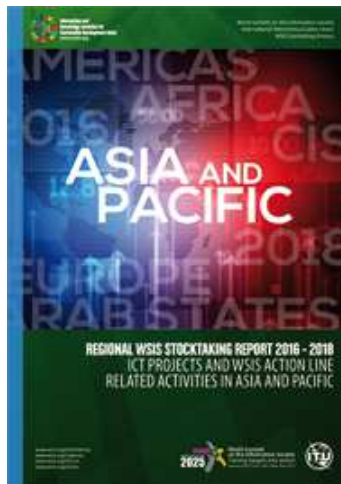
## Report on the World Summit on the Information Society Stocktaking

2005

The WSIS Stocktaking is intended to fulfil the dual purpose of providing an inventory of activities undertaken by governments and all stakeholders in implementing the Geneva decisions (WSIS Declaration of Principles and Plan of Action) and of taking stock of the progress made in building the Information Society. The report has been specially prepared for the Tunis phase of the Summit, 16-18 November 2005.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	40.-	E	27702		84
		F	27703		84
	40.-	E, F			
	40.-	E, F	27879	92-61-11357-5	





## WSIS Regional Stocktaking Report in Asia and Pacific 2016-2018

Following the publication of the WSIS Regional Stocktaking series for the period 2014-2016 and its popular reception within the WSIS community, a new edition of the WSIS Regional Stocktaking emphasizing how ICTs are helping advance the Sustainable Development Goals in the Asia-Pacific Region has been prepared and is now freely available in the formats below.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## WSIS Regional Stocktaking Report in Europe 2016-2018

Following the publication of the WSIS Regional Stocktaking series for the period 2014-2016 and its popular reception within the WSIS community, a new edition of the WSIS Regional Stocktaking emphasizing how ICTs are helping advance the Sustainable Development Goals for the period 2016-2018 in the Europe Region has been prepared and is now freely available in the formats below.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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26




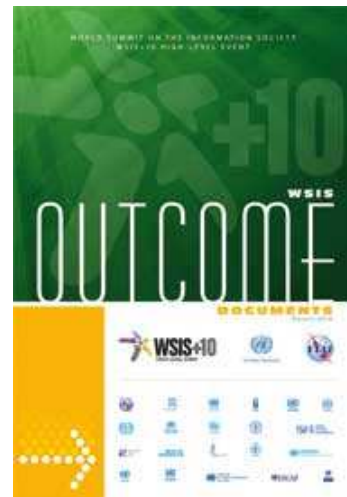
## Final WSIS Targets Review – Achievements, Challenges and the Way forward

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

## WSIS Outcome Documents

2014



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			



## World Information Society Report 2007: Beyond WSIS

2007

The second edition of the World Information Society Report, published by ITU and UNCTAD, looks beyond WSIS to the creation of an inclusive, people-centred and development-oriented Information Society, open to all. The opening chapter looks at the challenges of measuring the ICT sector while chapter two examines progress in bridging the digital divide. Chapter three focuses on emerging trends in the information society worldwide and chapter four looks at national ICT strategies. Chapter five considers the threats to cybersecurity, while chapter six provides an update on WSIS implementation and presents a number of ICT success stories across the world. When purchased, the report is accompanied by a series of tables providing the latest statistics on the development of ICTs worldwide.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	105.-	E	30655	92-61-12151-9	212
	105.-	E			





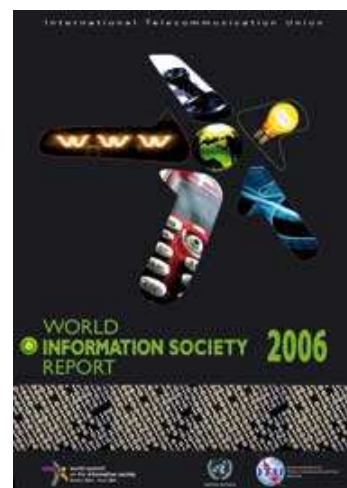
27

## World Information Society Report 2006

2006

The second edition of the World Information Society Report: Beyond WSIS, published by ITU and UNCTAD, looks beyond the World Summit on the Information Society (WSIS, Geneva 2003 - Tunis 2005) to the creation of an inclusive, people-centred and development-oriented Information Society, open to all. The report tracks progress in digital opportunity for 181 economies over the past few years since the start of the WSIS process and is accompanied by a series of tables providing the latest statistics on the development of Information and Communication Technologies (ICTs) worldwide. The report has been created by the "Digital Opportunity Platform", an open multi-stakeholder platform with contributions from governments, private sector, academics and civil society, as well as inter-governmental organisations.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	100.-	E	28974	92-61-11671-X	156
	100.-	E			





### ITU WSIS Thematic Meeting: Building Digital Bridges

2005

This report looks at efforts by stakeholders at the local, national and international level to bridge the digital divide. It reviews the role of new technologies, multi-stakeholder partnerships and ICT indices in reducing the gap, taking an in-depth look at the cases of Australia, Hong Kong, India, Korea (Rep. of) and Malaysia. The report also proposes a methodology for the development of a composite Digital Opportunity Index (DOI).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	65.-	E	27537	92-61-11321-4	474
	65.-	E			



### World Summit on the Information Society – Golden Book for the Tunis Phase

2005

The Golden Book is intended to promote new commitments in the field of ICTs that stakeholders have announced during the Tunis Phase of the WSIS. Launched in October 2005, the Golden Book brings together new initiatives, which complement those already underway and recorded in the WSIS stocktaking database.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	30.-	E	28434	92-61-11541-1	44



### ITU WSIS Thematic Meeting: Countering Spam

2004

This publication presents the materials and conclusions of a thematic meeting on 'Countering Spam' held by ITU from 7 to 9 July 2004, and forms part of the ITU New Initiatives Programme series. Among other things, the contributions delivered by the participants looked at the problem of finding a common approach to spam, and analyse issues ranging from technical solutions, different legislative approaches and international cooperation among different stakeholders. Also looked at is the problem of consumer awareness and education.


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	65.-	E R	25264 27312	92-61-10751-6 92-61-10754-0	284 284
	65.-	E R			

## Visions of the Information Society

2003

This book is aimed at presenting the major questions and challenges facing most societies in today's world. While we have endeavoured to present the themes at a level that is widely accessible, we hope that the high level of expertise makes this publication a useful contribution to people from all fields of specialization wishing to gain better insights into the benefits, challenges and risks of our information societies today and in the future. The spectacular development of information and communication technologies (ICT) has radically affected the way in which humans work, dialogue with each other, and go about their daily lives. It has transformed the global economy, heralding a new and dynamic "information society". But what are the real implications of the transformation? Greater security risks? Access to information for everyone, everywhere? This publication, consisting of a book containing expert analyses of different areas and a CD-ROM containing extensive background resources, electronic versions of studies and web references, provides a global reflection on the information society. The authors are renowned experts in their respective fields, and include leading academics and consultants of international repute. The major themes covered are: the perspectives of industrialized and developing countries; network security; ICTs for education; and rights management.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	60.-	E	23631	92-61-10391-X	144
		C	30204	92-61-10395-2	150
		R	25809	92-61-10394-4	150

## Publications in the Context of the World Summit on the Information Society (WSIS) 2005-2016

2017

The World Summit on the Information Society Forum (WSIS) represents the world's largest annual gathering of the "ICT for development" community and facilitates the implementation of the WSIS Action Lines for advancing sustainable development. The information contained in this USB Key is a collection of WSIS actions which provides all the documents on outcomes, outreach, forum, reports and success stories from 2005 to 2016.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	25.-	E	41353	978-92-61-24551-1	

29

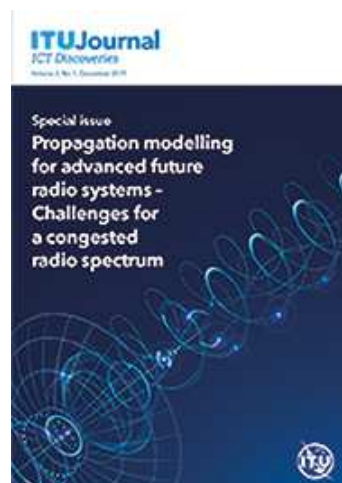
## 1.4 ITU Journal: ICT Discoveries

### Issues

#### Special issue 1 - Propagation modelling for advanced future radio systems - Challenges for a congested radio spectrum

This special issue of the ITU Journal: ICT Discoveries considers the wide range of radio wave propagation phenomena and their effect on radiocommunication systems performance, availability and reliability. This publication explores the latest developments concerning propagation modelling and the phenomena relevant to the planning and deployment of advanced future radiocommunication systems and the efficient use of the radio spectrum.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



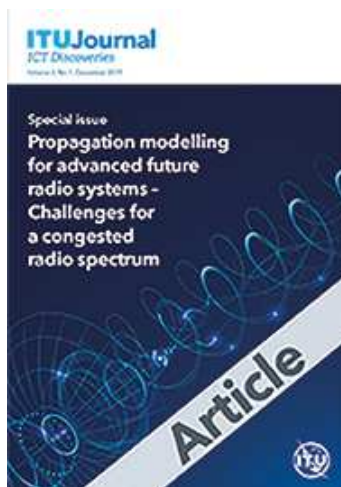


## Special Issue 2 - Data for good

The second special issue of the ITU Journal: ICT Discoveries presents academic papers that offer insight into the increasing sophistication of techniques used to exchange and understand data, while also exploring how data can safely fuel more autonomous, human centric information and communication technologies. Given the interdisciplinary nature of the issue, it features contributions that add a deeper dimension to the discussion by looking at the policy, regulatory and ethical aspects involved in the increasing use of data today.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

## Articles



## Article 7 - Analytic models for bi-static scattering from a randomly rough surface with complex relative permittivity

This study provides explicit mathematical formulations for the bi-static scattering coefficient from a randomly rough surface with a complex relative permittivity based on the following analytic models: Small perturbation model (SPM), Physical optics model (PO), and Kirchhoff approximation model (KA). Then it addresses the two shortcomings associated with each of the three models: i) limited applicability domain, and ii) null predicted values for the cross-polarized bi-static scattering coefficients within plane of incidence. The plane of incidence contains both backscattering direction and forward (specular reflection) direction which are of interest to the spectrum community.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

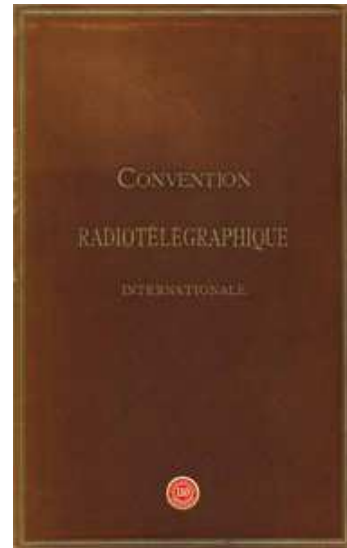
## 2.1 General Publications

### Convention Radiotélégraphique internationale

Commemorative 110th Anniversary Edition

This is a commemorative reproduction of the first edition of the International Radio Telegraph Convention, issued on the occasion of the 110th anniversary of the ITU Radio Regulations in 2016. The Convention recognized the importance of radio for the safety-of-life at sea and adopted a distinctive distress signal: SOS. It was signed in Berlin in 1906, at which time the Final Protocol, Service Regulations, and the Additional Agreement providing for obligatory intercommunication between ships without distinction as to the system used were also approved.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	24.-	F	40847	978-92-61-22221-5	44
	Free	F			





## 2.2 Regulatory Publications

The legal framework of ITU comprises the basic instruments of the Union, which have treaty status and are binding on ITU Member States. These instruments are the Constitution and Convention of the International Telecommunication Union and the Administrative Regulations, which complement the Constitution and the Convention.

### Radio Regulations

2020

The Radio Regulations, Edition of 2020, contains the complete texts of the Radio Regulations adopted by the World Radiocommunication Conference of 1995 (WRC-95) and reviewed by the subsequent World Radiocommunication Conferences: WRC-97 (Geneva, 1997), WRC-2000 (Istanbul, 2000), WRC-03 (Geneva, 2003), WRC-07 (Geneva, 2007), WRC-12 (Geneva, 2012), WRC-15 (Geneva, 2015) and WRC-19 (Sharm el-Sheik, 2019). As per a 2013 Council decision, the pdf versions, not qualifying as carriage requirements, are now posted free of charge for personal use and can be accessed either below, directly, or via OneITU. Hard-copies or DVDs, both now available. Orders can be made below and include free world-wide delivery.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	442.-	E	43513	978-92-61-30291-7	
		F	43514	978-92-61-30292-4	
		S	43515	978-92-61-30293-1	
		A	43516	978-92-61-30296-2	
		C	43517	978-92-61-30295-5	
		R	43518	978-92-61-30294-8	
	442.-	E, F, S, A, C, R	43519	978-92-61-30317-4	



NO IMAGE  
AVAILABLE

NO IMAGE  
AVAILABLE

## Rules of Procedure

2021

Rules of Procedure, approved by the Radio Regulations Board, for the application by the Radiocommunication Bureau of the provisions of the Radio Regulations, Regional Agreements and Resolutions and Recommendations of World and Regional Radiocommunication Conferences. Kindly note that the pdf and MSW versions are now posted free of charge and can be accessed either below, directly, or via the ITU Hub. Orders for hard-copies include free delivery world-wide.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	200.-	E	44029	978-92-61-32751-4	
		F	44030	978-92-61-32752-1	
		S	44031	978-92-61-32753-8	
		A	44032	978-92-61-32756-9	
		C	44033	978-92-61-32755-2	
		R	44034	978-92-61-32754-5	
	Free	E			
		F			
		S			
		A			
		C			
		R			

## 2.3 Conference Publications

The Final Acts record the decisions taken at World Radiocommunication Conferences or Regional Radiocommunication Conferences. They include the new and revised provisions of the Radio Regulations and associated Appendices, as well as the new and revised Resolutions and Recommendations adopted by the Conference. The Final Acts of Regional Conferences normally contain Regional Agreements and Plans annexed to these Agreements.

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### World Radiocommunication Conferences

#### Final Acts WRC-19

2019

The Final Acts WRC-19 constitute a record of the decisions taken at the World Radiocommunication Conference 2019 (WRC-19) that comprises both the new and revised provisions of the Radio Regulations, including all Appendices, and the new and revised Resolutions and Recommendations approved by the Conference. Statements made by Member States at the time of signing the Final Acts are also included. Soft copies are free of charge; hard copies available to order.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	184.-	E	43180	978-92-61-29431-1	666
		F	43181	978-92-61-29432-8	666
		S	43182	978-92-61-29433-5	666
		A	43183	978-92-61-29436-6	666
		C	43184	978-92-61-29435-9	666
		R	43185	978-92-61-29434-2	666
	Free	E			
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## Final Acts WRC-15, World Radiocommunication Conference

2015

The Final Acts constitute a record of the decisions taken at the World Radiocommunication Conference 2015 (WRC-15). They include the new and revised provisions of the Radio Regulations including all Appendices, as well as the new and revised Resolutions and Recommendations approved by the Conference. For an exclusive Flipbook read-only preview in English of the complete publication, you are welcome to click [here](#). Complete pdf versions in all 6 official ITU languages can be obtained free of charge, as they become available, upon registration of a unique profile by clicking CONTINUE below. (Kindly note that TIES access is now accepted towards free access to this ITU Publication. See appropriate link below).




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	181.-	E, F, S, A, C, R	40253	978-92-61-16577-2	

NO IMAGE  
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## Final Acts - WRC-12, Geneva

2012

The Final Acts constitute a record of the decisions taken at the World Radiocommunication Conference, 2012 (WRC-12). They include the new and revised provisions of the Radio Regulations including all Appendices, as well as the new and revised Resolutions and Recommendations approved by the Conference. Statements made by Member States at the time of signing the Final Acts are also included.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	181.-	E	36931	978-92-61-14141-7	490
		F	36932	978-92-61-14142-4	490
		S	36933	978-92-61-14143-1	490
		A	36934	978-92-61-14146-2	490
		C	36935	978-92-61-14145-5	490
		R	36936	978-92-61-14144-8	490
	Free	E			
		F			
		S			
		A			
		C			
	181.-	E, F, S, A, C, R	36937	978-92-61-14147-9	






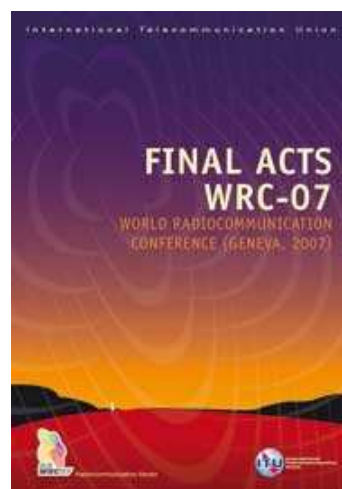
33

## Final Acts - WRC-07, Geneva

2007

The Final Acts record the decisions taken at the World Radiocommunication Conference, 2007 (WRC-07). They include the new and revised provisions of the Radio Regulations and associated Appendices, as well as the new and revised Resolutions and Recommendations adopted by the Conference. Statements made by Member States at the time of signing the Final Acts are also included.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	150.-	E	31486	92-61-12201-9	
		F	31487	92-61-12202-7	
		S	31488	92-61-12203-5	
		A	31490	92-61-12206-X	
		C	31491	92-61-12205-1	
		R	31489	92-61-12204-3	
	Free	E			
		F			
		S			
		A			
		C			
	150.-	E, F, S, A, C, R	31492	92-61-12217-5	






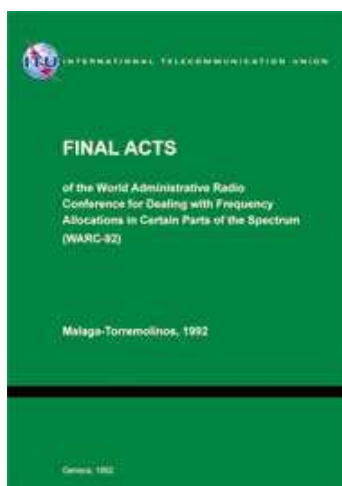


## Final Acts - WRC-03, Geneva

Geneva, 2003



The Final Acts record the decisions taken at the World Radiocommunication Conference, 2003 (WRC-2003). They include the new and revised provisions of the Radio Regulations and associated Appendices, as well as the new and revised Resolutions and Recommendations adopted by the Conference. Statements made by Member States at the time of signing the Final Acts are also included.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	120.-	E	24404	92-61-10561-0	695
		F	24405	92-61-10562-9	695
		S	24406	92-61-10563-7	695
		A	25107	92-61-10566-1	676
		C	25108	92-61-10565-3	676
		R	25106	92-61-10564-5	676
	Free	E			
		F			
		S			
		C			
		R			
	120.-	E, F, S	24407	92-61-10577-7	



## Final Acts of the WARC for Dealing with Frequency Allocation in Certain Parts of the Spectrum (WARC-92)

Malaga-Torremolinos, 1992

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	82.-	E	2701	92-61-04661-4	280
		F	2700	92-61-04662-2	280
		S	2702	92-61-04663-0	280
	Free	E			
		F			
		S			



## Regional Radiocommunication Conferences



## Final Acts of the Regional Radiocommunication Conference for the revision of the Stockholm 1961 Agreement (RRC-06-Rev.ST61)

2006



This publication contains the Protocol revising certain parts of the ST61 Agreement so as to harmonize the scope of the ST61 Agreement (dealing with VHF/UHF broadcasting) with the GE06 Agreement adopted by RRC-06. The Final Acts also include the Resolutions adopted by RRC-06-Rev.ST61.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	18.-	E	29322	92-61-11751-1	30
		F	29323	92-61-11752-X	30
		S	29324	92-61-11753-8	30
		A	29326	92-61-11756-2	30
		R	29325	92-61-11754-6	30
	Free	E			
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## Final Acts of the Regional Radiocommunication Conference for the revision of the Geneva 1989 Agreement (RRC-06-Rev.GE89)

2006

This publication contains the Protocol revising certain parts of the GE89 Agreement so as to harmonize the scope of the GE89 Agreement (dealing with VHF/UHF television broadcasting) with the GE06 Agreement adopted by RRC-06. The Final Acts also include the Resolutions adopted by RRC-06-Rev.GE89.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	24.-	E	29317	92-61-11741-4	36
		F	29318	92-61-11742-2	36
		S	29319	92-61-11743-0	36
		A	29321	92-61-11746-5	36
	Free	E			
		F			
		S			
		A			



## Final Acts RRC-06, RRC-06-Rev.ST61 and RRC-06-Rev.GE89, on CD-ROM

2006

This publication contains the Regional Agreement GE06, adopted by RRC-06, as well as the Resolutions adopted by RRC-06-Rev.ST61 and the Resolutions adopted by RRC-06-Rev.GE89.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	150.-	E, F, S, A, R	29312	92-61-11727-9	



## Final Acts of the Regional Administrative Broadcasting Conference (Region 2)

Rio de Janeiro, 1981

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S			





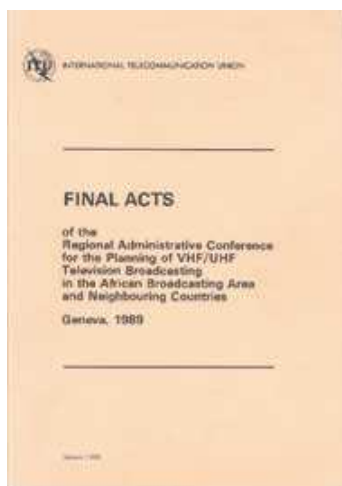


Final Acts of the Regional Radiocommunication Conference for planning of the digital terrestrial broadcasting service in parts of Regions 1 and 3, in the frequency bands 174-230 MHz and 470-862 MHz (RRC-06)

2006

The Final Acts of RRC-06 contain the Regional Agreement GE06, adopted by RRC-06, which governs the use of frequencies by the broadcasting service and other primary terrestrial services in the frequency bands 174-230 MHz and 470-862 MHz. They also contain frequency assignment and frequency allotment plans for the digital broadcasting service (television and sound), the analogue television plan applicable in the transition period, the coordinated list of assignments to other terrestrial primary services in these bands, and the Resolutions adopted by RRC-06. The GE06 Agreement is provisionally applicable as from 17 June 2006. (Note: Only the freely available Table of Contents is downloadable).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	132.-	F	29308	92-61-11712-0	336
		S	29309	92-61-11713-9	336
		A	29311	92-61-11716-3	336
		R	29310	92-61-11714-7	336
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## Final Acts of the Regional Administrative Radio Conference for the Planning of VHF/UHF Television Broadcasting in the African Broadcasting Area and Neighbouring Countries

1989


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			
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		S			
		A			

## Conference Publications

### Report of the CPM to WRC-12

2011

This CPM Report to the 2012 World Radiocommunication Conference (WRC-12) was prepared in response to Resolution 1291 (MOD) of the ITU Council to assist those who will be involved in the preparations for and deliberations at WRC-12. It was prepared and approved by the Conference Preparatory Meeting (CPM) at its Second Session in Geneva, 14-25 February 2011. This Report is structured to follow the topics of the WRC-12 Agenda and comprises six Chapters and one Annex. Price below includes Paper/CD packaged together. Not sold separately, not available in pdf for download.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	235.-	E	36431	92-61-13531-5	688
		F	36432	92-61-13532-3	764
		S	36434	92-61-13533-1	740
		A	36435	92-61-13536-6	722
		C	36436	92-61-13535-8	688
		R	36433	92-61-13534-X	698



### Report of the CPM to the WRC-23

The CPM Report to the 2023 World Radiocommunication Conference (WRC-23) was prepared in response to ITU Council Resolution 1399 (C20), to assist those involved in the preparations of WRC-23. This Report, prepared and approved by the Conference Preparatory Meeting (CPM) at its Second Session in Geneva (27 March to 6 April 2023), represents the best information on technical, operational and regulatory/procedural issues relevant to the WRC-23 Agenda available at the time of its preparation and should provide a good basis for the discussions at the Conference. To read more about CPM 2023, please see ITU-R's information pages



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			
		S			
		A			
		C			



## Report of the CPM to the WRC-19

2019

The CPM Report to the 2019 World Radiocommunication Conference (WRC-19) was prepared in response to ITU Council Resolution 1380 (C16, Amended C17), to assist those involved in the preparations of WRC-19. This Report, prepared and approved by the Conference Preparatory Meeting (CPM) at its Second Session in Geneva (18 to 28 February 2019), represents the best information on technical, operational and regulatory/procedural issues relevant to the WRC-19 Agenda available at the time of its preparation and should provide a good basis for the discussions at the Conference. To read more about CPM 2019, please see ITU-R's information pages



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	240.-	E	42750	978-92-61-28341-4	
		F	42751	978-92-61-28342-1	
		S	42752	978-92-61-28343-8	
		A	42753	978-92-61-28346-9	
		C	42754	978-92-61-28345-2	
		R	42755	978-92-61-28344-5	
	Free	E			
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		R			



## Report of the CPM to WRC-15

2015

The CPM Report to the 2015 World Radiocommunication Conference (WRC-15) was prepared in response to ITU Council Resolution 1343 (C12), to assist those involved in the preparations of WRC-15. This Report, prepared and approved by the Conference Preparatory Meeting (CPM) at its Second Session in Geneva (23 March ? 2 April 2015), represents the best information on technical, operational and regulatory/procedural issues relevant to the WRC-15 Agenda available at the time of its preparation and should provide a good basis for the discussions at the Conference.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	240.-	E	39719	978-92-61-15631-2	862
		F	39720	978-92-61-15632-9	976
		S	39721	978-92-61-15633-6	980
		A	39722	978-92-61-15636-7	878
		C	39723	978-92-61-15635-0	800
		R	39724	978-92-61-15634-3	860
	240.-	E			
		F			
		S			
		A			
		C			
		R			



## 2.4 Service Publications

ITU-R Handbooks constitute an authoritative source of technical material relating to radiocommunications that disseminates information in a form that is readily understandable and that can be applied practically, especially in the training of technicians and engineers, while paying special attention to the requirements of developing countries.


### Maritime Publications

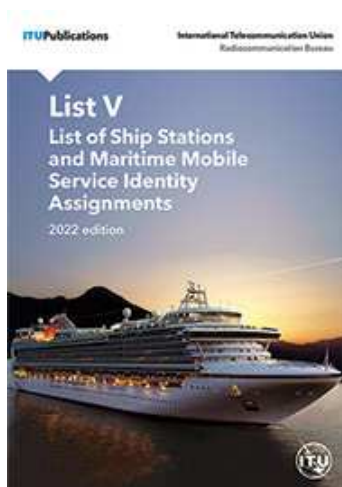


#### List V - List of Ship Stations and Maritime Mobile Service Identity Assignments

2023

The List of Ship Stations and Maritime Mobile Service Identity Assignments (List V) is a service publication prepared and issued, once a year, by the International Telecommunication Union (ITU), in accordance with provision no. 20.8 of the Radio Regulations (RR). As stipulated in Appendix 16 to the RR, this List shall be provided to all ship stations for which a Global Maritime Distress and Safety System (GMDSS) installation is required by international agreement. The 2023 edition is available for purchase. Vessels should begin to have this edition onboard by July 2023. Note: List V currently exists in CD format only. Vessels are invited to register their official CD by scanning their unique QR code.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	354.-	E, F, S, A, C, R	45217	978-92-61-37267-5	



#### List V - List of Ship Stations and Maritime Mobile Service Identity Assignments

2022

The List of Ship Stations and Maritime Mobile Service Identity Assignments (List V) is a service publication prepared and issued, once a year, by the International Telecommunication Union (ITU), in accordance with provision no. 20.8 of the Radio Regulations (RR). As stipulated in Appendix 16 to the RR, this List shall be provided to all ship stations for which a Global Maritime Distress and Safety System (GMDSS) installation is required by international agreement. Note: List V currently exists in CD format only. Vessels are invited to register their official CD by scanning their unique QR code. The 2023 edition is available from 1 May 2023.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	322.-	E, F, S, A, C, R	44665	978-92-61-35437-4	

## List IV - List of Coast Stations and Special Service Stations

2021

List IV contains important information for the mariner in relation to radiocommunications, including the GMDSS (Global Maritime Distress and Safety System). Detailed information such as the frequencies for transmitting and receiving, in addition to geographical coordinates, is provided for maritime coast radio stations, including those assuming watch-keeping using digital selective calling (DSC) techniques and radiotelephony. List IV also supplies details of additional services such as medical advice, navigational and meteorological warnings, MSI (Maritime Safety Information), AIS (Automatic Identification System), meteorological bulletins and radio time signals, along with the hours of service and operational frequencies, information on port stations, pilot stations, coast Earth stations, VTS stations, contact information of RCC (Rescue Coordination Centers), SAR agencies, Navarea coordinators and AtoNs (AIS Aids to Navigation). As stipulated in Appendix 16 to the RR, this List shall be provided to all ship stations for which a Global Maritime Distress and Safety System (GMDSS) installation is required by international agreement. Available as from December 2021. Note: This title exists in CD format only, no book/hard-copy format. End-users should register their official CD by scanning their unique QR code. Next edition: 4th Quarter 2023.





MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	213.-	E, F, S, A, C, R	44495	978-92-71-22031-7	

## Manual for Use by the Maritime Mobile and Maritime Mobile-Satellite Services (Maritime Manual)

2020

The Manual for Use by the Maritime Mobile and Maritime Mobile-Satellite Services is published in accordance with Article 20 (No. 20.14) of the Radio Regulations and results from studies carried out in the ITU-R since 2008. Volume 1 provides descriptive text of the organization and operation of the GMDSS and other maritime operational procedures, while Volume 2 contains the extracts of the regulatory texts associated with maritime operations. 2020 edition now available in CD or paper formats. Advanced English-only CDs exceptionally without the ITU hologram. Multi-lingual CDs include the ITU hologram on the back cover of the CD jacket. Each purchased copy should be registered by the end-user with a quick scan of the QR code on the jacket's back cover. Paper editions in each of the 6 official ITU languages now also available.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	295.-	E	43812	978-92-61-32031-7	
		F	43813	978-92-61-32032-4	
		S	43814	978-92-61-32033-1	
		A	43815	978-92-61-32036-2	
		C	43816	978-92-61-32035-5	
		R	43817	978-92-61-32034-8	
	295.-	E, F, S, A, C, R	43819	978-92-61-32061-4	



## General Publications



### BR Space Services WIC/IFIC - Annual Collection

2021

The collection of BR WICs (Weekly Information Circulars) and BR IFICs (International Frequency Information Circulars) for Space Services contains Parts and Special Section publications with information on the frequency assignments for space stations, Earth stations or radioastronomy stations submitted to the Radiocommunication Bureau by ITU Member State administrations. The collection is distributed on multiple DVD-ROMs and contains archived BR WICs compiled by time series (1965-1995) and from 1996 by year (1996-1999), and archived BR IFICs (from 2000 onwards) by year.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	9940.-	E, F, S	33648		
	500.-	E, F, S, A, C, R	44836	978-92-61-36117-4	



### BR Space Services WIC/IFIC - Annual Collection

2020

The collection of BR WICs (Weekly Information Circulars) and BR IFICs (International Frequency Information Circulars) for Space Services contains Parts and Special Section publications with information on the frequency assignments for space stations, Earth stations or radioastronomy stations submitted to the Radiocommunication Bureau by ITU Member State administrations. The collection is distributed on multiple DVD-ROMs and contains archived BR WICs compiled by time series (1965-1995) and from 1996 by year (1996-1999), and archived BR IFICs (from 2000 onwards) by year.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	9590.-	E, F, S	33648		
	500.-	E, F, S, A, C, R	44307	978-92-61-33157-3	



### BR Space Services WIC/IFIC - Annual Collection

2019



The collection of BR WICs (Weekly Information Circulars) and BR IFICs (International Frequency Information Circulars) for Space Services contains Parts and Special Section publications with information on the frequency assignments for space stations, Earth stations or radioastronomy stations submitted to the Radiocommunication Bureau by ITU Member State administrations. The collection is distributed on multiple DVD-ROMs and contains archived BR WICs compiled by time series (1965-1995) and from 1996 by year (1996-1999), and archived BR IFICs (from 2000 onwards) by year.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	9240.-	E, F, S	33648		
	500.-	E, F, S, A, C, R	43512	978-92-61-30347-1	

## BR Space Services WIC/IFIC - Annual Collection

2018

The collection of BR WICs (Weekly Information Circulars) and BR IFICs (International Frequency Information Circulars) for Space Services contains Parts and Special Section publications with information on the frequency assignments for space stations, Earth stations or radioastronomy stations submitted to the Radiocommunication Bureau by ITU Member State administrations. The collection is distributed on multiple DVD-ROMs and contains archived BR WICs compiled by time series (1965-1995) and from 1996 by year (1996-1999), and archived BR IFICs (from 2000 onwards) by year.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	8890.- Complete coll.	E, F, S	33648		
	500.-	E, F, S, A, C, R	42561	978-92-61-28297-4	



## BR Space Services WIC/IFIC - Annual Collection

2017

The collection of BR WICs (Weekly Information Circulars) and BR IFICs (International Frequency Information Circulars) for Space Services contains Parts and Special Section publications with information on the frequency assignments for space stations, Earth stations or radioastronomy stations submitted to the Radiocommunication Bureau by ITU Member State administrations. The collection is distributed on multiple DVD-ROMs and contains archived BR WICs compiled by time series (1965-1995) and from 1996 by year (1996-1999), and archived BR IFICs (from 2000 onwards) by year.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	8540.- Complete coll.	E, F, S	33648		
	500.-	E, F, S, A, C, R	42126	978-92-61-26467-3	





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## BR Space Services WIC/IFIC - Annual Collection

2016

The collection of BR WICs (Weekly Information Circulars) and BR IFICs (International Frequency Information Circulars) for Space Services contains Parts and Special Section publications with information on the frequency assignments for space stations, Earth stations or radioastronomy stations submitted to the Radiocommunication Bureau by ITU Member State administrations. The collection is distributed on multiple DVD-ROMs and contains archived BR WICs compiled by time series (1965-1995) and from 1996 by year (1996-1999), and archived BR IFICs (from 2000 onwards) by year.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	8190.- Complete coll.	E, F, S	33648		
	500.- Single ed.	E, F, S, A, C, R	41160	978-92-61-23847-6	





## List VIII - List of International Monitoring Stations 2022

This List contains: 1) the addresses and other relevant information of centralizing offices and an index of monitoring stations; 2) particulars of monitoring stations carrying out the following measurements related to terrestrial radiocommunication stations: frequency measurements, field strength or power flux-density measurements, direction-finding measurements, bandwidth measurements as well as automatic spectrum occupancy surveys; and 3) particulars of monitoring stations carrying out measurements related to space radiocommunication stations. This publication also contains an electronic map of monitoring stations and geographical zones for HF broadcasting (CIRAF zones). The 2022 CD version will be available to order in January 2023. Direct download will be free of charge for ITU (TIES) members only.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	90.-	E, F, S, A, C, R	45095	978-92-61-36927-9	

## 2.5 ITU-R Recommendations

ITU-R Recommendations constitute a set of international technical standards developed by the Radiocommunication Sector (formerly CCIR) of the ITU. They are the result of studies undertaken by Radiocommunication Study Groups on:

- the use of a vast range of wireless services, including popular new mobile communication technologies;
- the management of the radio-frequency spectrum and satellite orbits;
- the efficient use of the radio-frequency spectrum by all radiocommunication services;
- terrestrial and satellite radiocommunication broadcasting;
- radiowave propagation;
- systems and networks for the fixed-satellite service, for the fixed service and the mobile service;
- space operation, Earth exploration-satellite, meteorological-satellite and radio astronomy services.

ITU-R Recommendations are approved by ITU Member States. Their implementation is not mandatory; however, as they are developed by experts from administrations, operators, the industry and other organizations dealing with radiocommunication matters from all over the world, they enjoy a high reputation and are implemented worldwide.

(\*Free online access to current ITU-R Recommendations is provided on a trial basis to ITU Member States administrations, Sector Members and Associates of all Sectors via TIES until further notice.)

They are divided into Series according to the subjects they cover, as follows:

Series	Subject area
BO	Satellite delivery
BR	Recording for production, archival and play-out; film for television
BS	Broadcasting service (sound)
BT	Broadcasting service (television)
F	Fixed service
M	Mobile, radiodetermination, amateur and related satellite services
P	Radiowave propagation
RA	Radio astronomy
RS	Remote sensing systems
S	Fixed-satellite service
SA	Space applications and meteorology
SF	Frequency sharing and coordination between fixed-satellite and fixed service systems


Series	Subject area
SM	Spectrum management
SNG	Satellite news gathering
TF	Time signals and frequency standards emissions
V	Vocabulary and related subjects

## ITU-R Recommendations, Reports and selected Handbooks

2021

ITU-R Recommendations constitute a set of international technical standards developed by the Radiocommunication Sector of ITU on topics such as efficient management and use of the spectrum/orbit resource, radio systems characteristics and performance, spectrum monitoring and emergency radiocommunications for public protection and disaster relief. ITU-R Reports contain technical, operational or procedural statements prepared by radiocommunication study groups. ITU-R Handbooks provide a statement of the current knowledge, the present position of studies, or of good operating or technical practice, in certain aspects of radiocommunications.

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AVAILABLE

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	600.-	E, F, S, A,	44047	978-92-61-32857-3	
		C, R	44048	978-92-61-32867-2	

## 2.6 Handbooks

43




ITU-R Handbooks constitute an authoritative source of technical material relating to radiocommunications that disseminates information in a form that is readily understandable and that can be applied practically, especially in the training of technicians and engineers, while paying special attention to the requirements of developing countries.

### Spectrum management

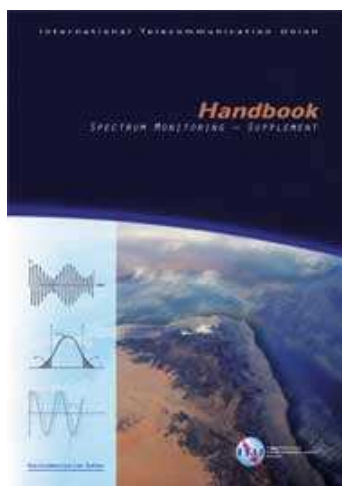
#### Spectrum Monitoring

2011

The Handbook on Spectrum Monitoring contains the latest information on all aspects of monitoring and represents a valuable reference manual for the spectrum management community. It is intended for the use by administrations of both developing and developed countries and by the Radiocommunication Bureau. The Handbook will also be useful to radiocommunication engineers everywhere.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	230.-	E	36355	92-61-13501-3	678
		F	36356	92-61-13502-1	806
		S	36357	92-61-13503-X	768
		A	36359	92-61-13506-4	752
		C	36360	92-61-13505-6	688
		R	36358	92-61-13504-8	764
	Free	E			
		F			
		S			
		A			
		C			
	230.-	E, F, S, A,	36361	92-61-13527-7	
		C, R			





## Supplement to Handbook on Spectrum Monitoring

2008

The purpose of this Supplement to the ITU-R Handbook - Spectrum Monitoring (Edition 2002) is to provide up-to-date information on several issues before the publication of the next complete edition of the Handbook. It provides a complete and self-contained revision of the following chapters of the Handbook: - Chapter 3 (Monitoring equipment and automation of monitoring operations), - Section 5.1 (Spacecraft emission monitoring) of Chapter 5, and - Annex 1 (Monitoring system planning and tenders).

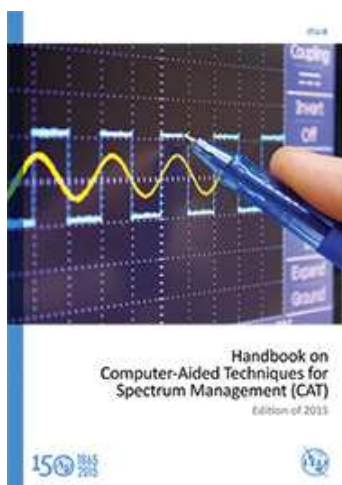
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	68.-	E	33367	92-61-12611-1	202
		F	33368	92-61-12612-X	202
		S	33369	92-61-12613-8	202
		A	33371	92-61-12616-2	218
		C	33372	92-61-12615-4	202
		R	33370	92-61-12614-6	202
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		A			
		C			
		R			
	68.-	E, F, S, A, C, R	33373	92-61-12637-5	

## Spectrum Management

### Computer-aided Techniques for Spectrum Management (CAT)

2015

This Handbook should be seen as complementary to Handbooks 'National Spectrum Management' (2015) and 'Spectrum Monitoring' (2011). The topic of national spectrum management has evolved and become the central hot spot in the activities of all telecommunication administrations. This is particularly true for developing countries, where the dramatic development of ICT technologies and their wide application have led to a heavy increase in related spectrum usage. The user/reader will find basic material and numerous models for developing efficient projects that will assist in reaching their objective ? implementing automated spectrum management as soon as possible.





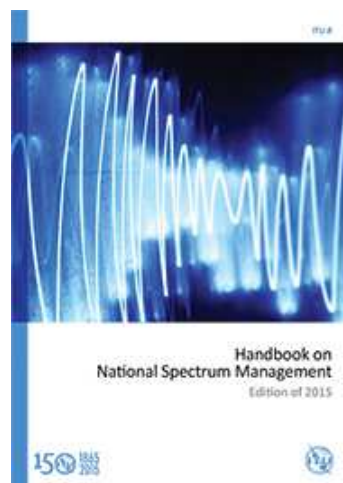
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	101.-	E	39887	978-92-61-15951-1	174
		F	39888	978-92-61-15952-8	184
		S	39889	978-92-61-15953-5	188
		A	39890	978-92-61-15956-6	184
		C	39891	978-92-61-15955-9	172
		R	39892	978-92-61-15954-2	192
	Free	E			
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## National Spectrum Management

2015

This Handbook describes the key elements of spectrum management: spectrum management fundamentals, spectrum planning, frequency assignment and licensing, spectrum monitoring, spectrum inspection and investigation, spectrum engineering, spectrum economics, automation of spectrum management activities and measures of spectrum utilization and spectrum utilization efficiency.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	155.-	E	39923	978-92-61-15891-0	334
		F	39924	978-92-61-15892-7	368
		S	39925	978-92-61-15893-4	358
		A	39926	978-92-61-15896-5	354
		C	39927	978-92-61-15895-8	336
		R	39928	978-92-61-15894-1	364
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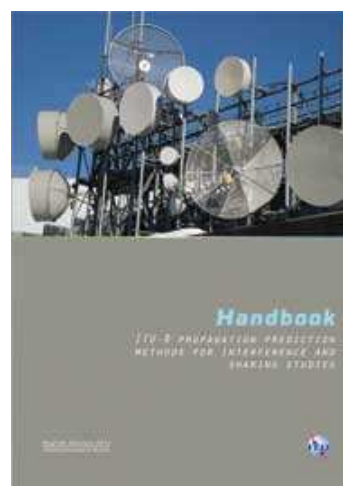
## Radiowave Propagation

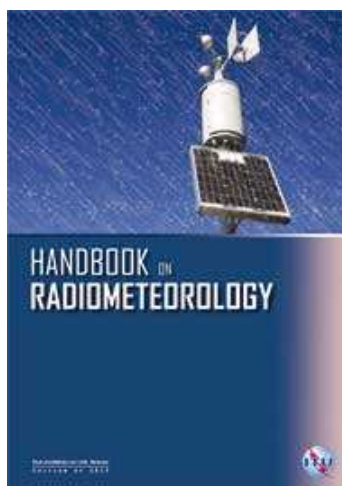
### ITU-R propagation prediction methods for interference and sharing studies

2012

This Handbook provides technical information and guidance needed for sharing studies and interference assessments using selected ITU-R P-Series RF propagation models and prediction methods. The handbook is intended to be used in conjunction with ITU-R P-Series Recommendations to assist in performing interference analyses and prediction methods on radiocommunications service systems.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	76.-	E	37692	978-92-61-14121-9	78
		F	37693	978-92-61-14122-6	82
		S	37694	978-92-61-14123-3	82
		A	37695	978-92-61-14126-4	86
		C	37696	978-92-61-14125-7	76
		R	37697	978-92-61-14124-0	88
	Free	E			
		F			
		S			
		A			
		C			
	76.-	E, F, S, A, C, R	37698	978-92-61-14127-1	






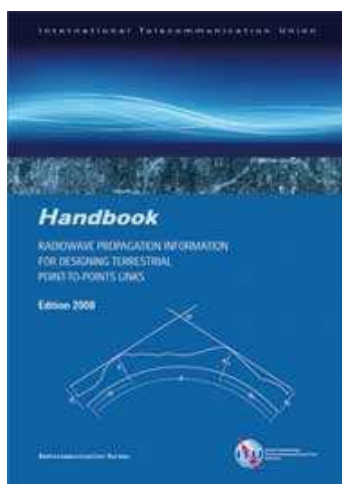


## Radiometeorology

2013

The Handbook on Radiometeorology supplies background and supplementary information on radiowave propagation effects as described and used in the ITU-R P series of Recommendations thus giving a more detailed understanding of these Recommendations, in particular to those who wish to contribute to their development.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	98.-	E	38634	978-92-61-14451-7	252
		F	38635	978-92-61-14452-4	275
		S	38636	978-92-61-14453-1	244
		A	38637	978-92-61-14456-2	238
		C	38638	978-92-61-14455-5	250
		R	38639	978-92-61-14454-8	248
	Free	E			
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		A			
		C			
		R			
	98.-	E, F, S, A, C, R	38640	978-92-61-14507-1	



## Radiowave propagation information for designing terrestrial point-to-point links




2008

The ITU-R Handbook - Radiowave propagation information for designing terrestrial point-to-point links supplies background and supplementary information on radiowave propagation effects, and serves as a companion volume and guide to the ITU-R Recommendations that have been developed by Radiocommunication Study Group 3 to assist in the design of terrestrial communication systems.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	62.-	E	33616	92-61-12771-1	112
		F	33617	92-61-12772-X	124
		S	33618	92-61-12773-8	124
		A	33620	92-61-12776-2	136
		C	33621	92-61-12775-4	112
		R	33619	92-61-12774-6	112
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		S			
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		C			
		R			
	62.-	E, F, S, A, C, R	33623	92-61-12797-5	

Terrestrial land mobile radiowave propagation in the VHF/UHF bands  
2002

This ITU-R Handbook gives the technical basis for predicting the radio propagation in point-to-point, point-to-area, and point-to-multipoint mobile networks.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	57.-	E	21447	92-61-09971-8	122
		F	21448	92-61-09972-6	122
		S	21449	92-61-09973-4	122
		R	24441	92-61-09974-2	122
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	57.-	E, F, S	21558	92-61-10057-0	

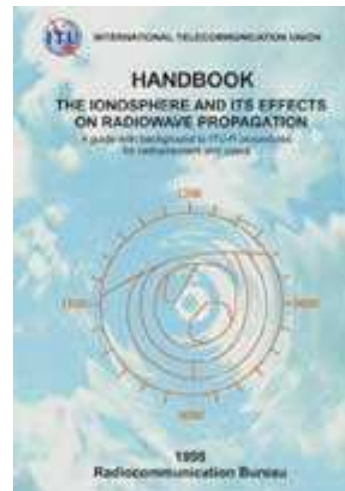


## Ionosphere and its Effects on Radiowave Propagation

1998

This Handbook supplements information on radiowave propagation in and through the ionosphere which is addressed in related Recommendations contained in the P Series of ITU-R Recommendations. In this respect, the Handbook is intended to help the user in the application of these Recommendations in the design and operation of radiocommunication systems using, or influenced by, the ionosphere. English edition sold-out in hard-copy version.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	36.-	S R	11108 14111	92-61-06673-9 92-61-06674-7	156
	Free	E			



## Radiowave Propagation Information for Predictions for Earth-to-Space Path Communications

1996

This Handbook provides information on radiowave propagation to assist in the design of Earth-to-space communication systems.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	35.-	F S A R	7321 7322 13564 11698	92-61-06362-4 92-61-06363-2 92-61-06366-7 92-61-06364-0	162 162 150 150
	Free	E F S			

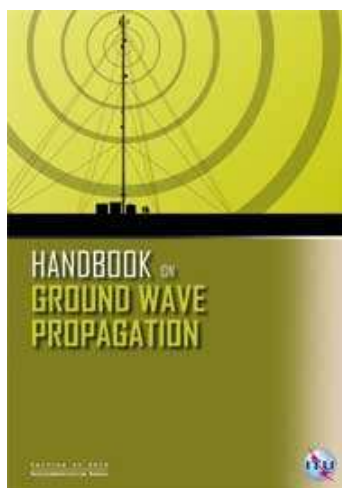


## Curves for Radiowave Propagation over the Surface of the Earth

1991

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E, F, S			





## Ground Wave Propagation

2014

The Handbook on ground wave propagation is of special interest for communication, particularly broadcasting, at the lower frequencies where the mode has been in use for more than 90 years. It deals with fundamentals and theory, wide-scale considerations and prediction methods used for compatibility assessments and planning procedures. Smaller scale variability, which may be of major importance in assessing the quality of services, is also treated. The topics of measurements and phase are also covered.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	38.-	E	38980	978-92-61-14641-2	66
		F	38981	978-92-61-14642-9	70
		S	38982	978-92-61-14643-6	70
		A	38983	978-92-61-14646-7	70
		C	38984	978-92-61-14645-0	66
		R	38985	978-92-61-14644-3	66
	Free	E			
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	38.-	E, F, S, A, C, R	38986	978-92-61-14657-3	

## Broadcasting Service

### Handbook on Digital Terrestrial Television Broadcasting networks and systems implementation

2021

The Handbook takes into account progress and convergence of technologies, different environments for production, primary and secondary distribution of broadcast programs as well as experiences in providing quality of service for DTTB. Specifically including technical aspects on the introduction of digital terrestrial and multimedia broadcasting; Information on standardized broadcasting systems in digital terrestrial and multimedia broadcasting networks, and some guidance on their implementation; References to normative documents (standards, technical specifications, reports, recommendations and other documents) that are important with respect to baseband (audio, video data) and transmission quality, as well as to DTTB services including interactive TV and access services; The use of DTTB systems in electronic news gathering and contribution of audio-visual content. The aim of the Handbook is to provide assistance in technical and service issues such as networks and systems, audiovisual quality and quality of transmission as well as on other issues of interest for the introduction of digital terrestrial TV broadcasting (from multimedia systems to UHD TV) in different countries.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	213.-	E	44428	978-92-61-33751-3	
	Free	E			
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		R			






## Fixed-satellite service

### Supplements No. 1, 2, 3 and 4 to Handbook on Mobile-satellite service (MSS)

2006




Supplement 1 - Systems aspects of digital mobile Earth station Supplement 2 - Methodology for the derivation of interference and sharing criteria for the Mobile-satellite services Supplement 3 - Interference and noise problems for maritime mobile-satellite systems using frequencies in the region of 1.5 and 1.6 GHz Supplement 4 - Technical aspects of coordination among mobile-satellite systems using the geostationary-satellite orbit

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	25.-	E	30996	92-61-12161-6	60
		F	30997	92-61-12162-4	60
		S	30999	92-61-12163-2	60
		A	33177	92-61-12166-7	60
		C	33178	92-61-12165-9	60
		R	31000	92-61-12164-0	60
	Free	E			
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		C			
		R			
	25.-	E	31001	92-61-12171-3	

### Mobile-satellite service (MSS)

2002

This Handbook provides a brief survey and introduction to the field of Mobile-satellite service (MSS). Note: Supplements 1, 2, 3 and 4 were published in 2006 and contain important updates to this Handbook.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	57.-	E	21450	92-61-09951-3	166
		F	21451	92-61-09952-1	166
		S	21452	92-61-09953-X	166
		R	22955	92-61-09954-8	166
	Free	E			
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		S			
	57.-	E, F, S	21559	92-61-10047-3	






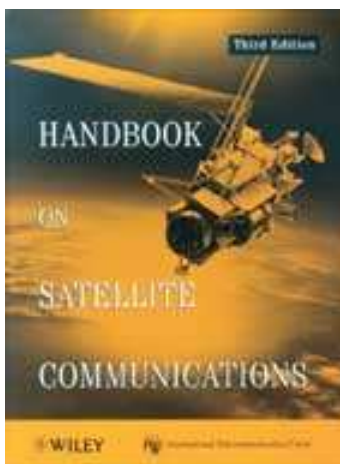


## DSB Handbook - Terrestrial and satellite digital sound broadcasting to vehicular, portable and fixed receivers in the VHF/UHF bands

2002

This Handbook describes the system and service requirements for digital sound broadcasting (DSB) to vehicular, portable and fixed receivers, the related propagation factors, the techniques employed in the digital sound broadcasting systems, and considers relevant planning parameters and sharing conditions.


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	250.-	E	21444	92-61-09961-0	854
		F	21445	92-61-09962-9	892
		S	21446	92-61-09963-7	892
		R	25615	92-61-09964-5	854
	Free	E			
		F			
		S			
		R			
	250.-	E	21395	92-61-09921-1	



## Satellite Communications (FSS)

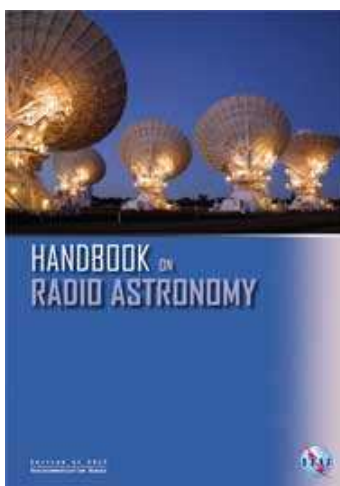
2002

This Handbook gives a comprehensive description of all issues relative to satellite communication systems operating in the fixed-satellite service (FSS).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	210.-	E	21432	92-61-09981-5	
		F	21431	92-61-09982-3	
		S	21433	92-61-09983-1	

50




## Science services



## Radio Astronomy

2013




The Handbook on Radio Astronomy has been developed by experts of Working Party 7D of ITU-R Study Group 7 (Science Services) that is responsible for radio astronomy. This Handbook is not intended as a source book on radio astronomy, but rather deals with such aspects of radio astronomy that are relevant to frequency coordination as the management of radio spectrum usage in order to minimize interference between radiocommunications services.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	70.-	E	38650	978-92-61-14481-4	160
		F	38651	978-92-61-14482-1	188
		S	38652	978-92-61-14483-8	172
		A	38653	978-92-61-14486-9	176
		C	38654	978-92-61-14485-2	170
		R	38655	978-92-61-14484-5	190
	Free	E			
	70.-	E, F, S, A, C, R	38656	978-92-61-14497-5	

## Earth Exploration-Satellite Service

2011

This Handbook provides full and comprehensive information on the development of EESS systems. Specifically, it provides basic definitions, sheds light on the technical principles underlying the operation of systems and presents their main applications to assist administrations in the spectrum planning, engineering and deployment aspects of these systems.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	68.-	E	36546	92-61-13761-X	96
	Free	E			
	68.-	E	36547	92-61-13771-7	

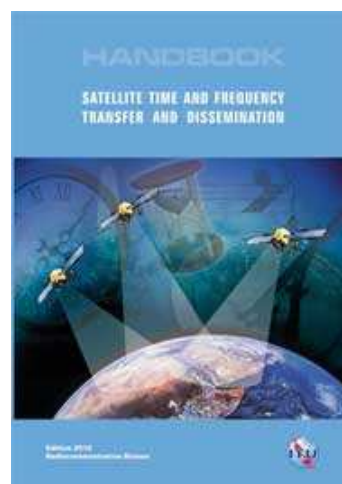


## Satellite Time and Frequency Transfer and Dissemination

2010

This is the first ITU Handbook to provide detailed information on the applied methods, technologies, algorithms, data structure and practical use of frequency and timing signals provided by satellite systems.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	96.-	E	36131	92-61-13301-0	218
		F	36132	92-61-13302-9	239
		S	36133	92-61-13303-7	227
		A	36135	92-61-13306-1	232
		C	36136	92-61-13305-3	218
		R	36134	92-61-13304-5	242
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	96.-	E	36137	92-61-13311-8	





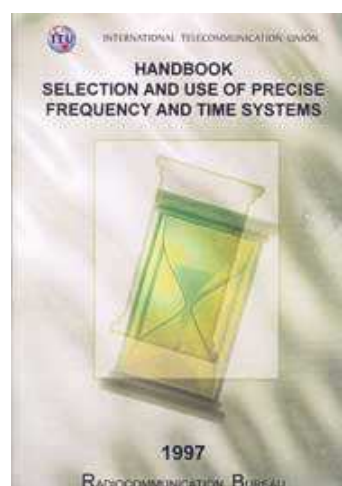
51

## Selection and Use of Precise Frequency and Time Systems

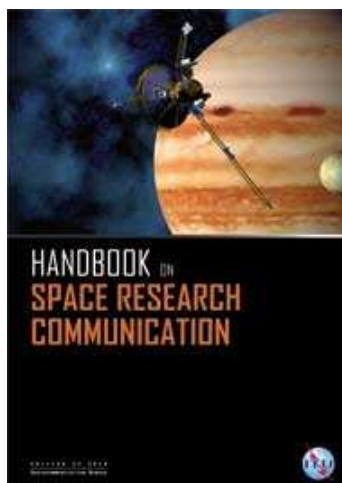
1997

This Handbook consists of ten chapters which describe basic concepts, frequency and time sources, measurement techniques, characteristics of various frequency standards, operational experience, problems and future prospects. The contents include detailed explanations and many references that can be consulted for additional details.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	50.-	F	10503	92-61-06512-0	196
		S	10505	92-61-06513-9	196
		A	15469	92-61-06516-3	196
		R	14457	92-61-06514-7	196
	Free	E			
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## Science Services



### Space Research Communications

2014

This Handbook is concerned principally with those aspects of the space research service that are relevant to the management of radio spectrum usage in order to minimize interference between radiocommunications services when the space research service is involved.

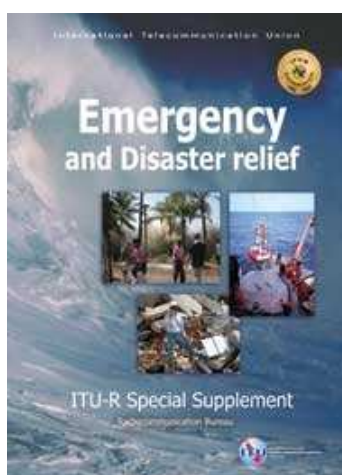
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	34.-	E	39431	978-92-61-15191-1	42
		F	39432	978-92-61-15192-8	46
		S	39433	978-92-61-15193-5	46
		A	39434	978-92-61-15196-6	46
		C	39435	978-92-61-15195-9	42
		R	39436	978-92-61-15194-2	46
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## ITU-R Special Supplements

### Emergency and Disaster relief

2006

Telecommunication is critical at all phases of disaster management. Aspects of radiocommunication services associated with disasters include, inter alia, disaster prediction, detection, alerting and disaster relief. In certain cases, when the 'wired' telecommunication infrastructure is significantly or completely destroyed by a disaster, only radiocommunications services can be employed for disaster relief operation.





MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	50.-	E	28530	92-61-11581-0	190
		F	28748	92-61-11582-9	208
		S	28749	92-61-11583-7	190
		A	28531	92-61-11586-1	190
		C	28532	92-61-11585-3	190
		R	28533	92-61-11584-5	152
	Free	E			
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	50.-	E, F, S, A, C, R	28750	92-61-11607-8	

## Terrestrial Services

### Land Mobile (including Wireless Access) - Volume 4: Intelligent Transport Systems

2021

This Volume of the Handbook provides a summary of the use of wireless communications in intelligent transport systems (ITS), current and under development, around the globe. This is a rapidly developing sector, still partly in its infancy, and this publication is representative of the time where it was produced. Volume 4 covers ITS application, system and communication architecture, as well as radio technologies and radio frequency usage for ITS systems, in addition to national and international standards.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	86.-	E	44035	978-92-61-32731-6	
		F	44036	978-92-61-32732-3	
		S	44037	978-92-61-32733-0	
		A	44038	978-92-61-32736-1	
		C	44039	978-92-61-32735-4	
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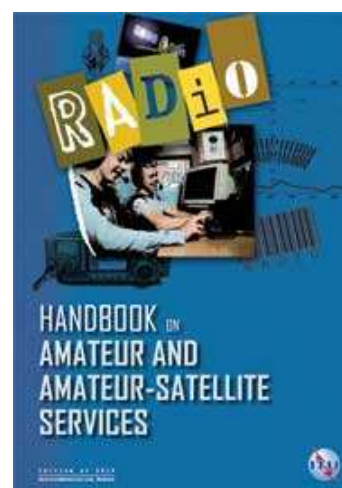


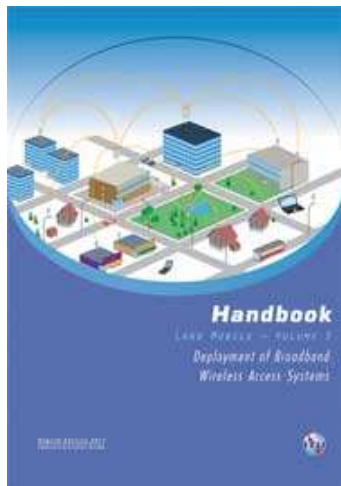
### Amateur and amateur-satellite services

2014

This Handbook provides general information about amateur and amateur-satellite services. It also includes a compendium of existing ITU texts of relevance to amateur and amateur-satellite services. This Handbook is intended to present, in one document, information about amateur services for administrations and amateur radio organizations.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	57.-	E	39092	978-92-61-14661-0	84
		F	39093	978-92-61-14662-7	84
		S	39094	978-92-61-14663-4	84
		A	39095	978-92-61-14666-5	82
		C	39096	978-92-61-14665-8	84
		R	39097	978-92-61-14664-1	80
	Free	E			
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		A			
		C			
		R			
	57.-	E, F, S, A, C, R	39111	978-92-61-14687-0	








## Land Mobile (including Wireless Access) - Volume 5: Deployment of Broadband Wireless Access Systems

2011

The overall purpose of the Handbook is to assist in the decision-making process involving planning, engineering and deployment of wireless-based land mobile systems, especially in developing countries. It also provides information that will assist in training engineers and planners in the regulating, planning, engineering and deployment aspects of these systems.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	67.-	E	36541	92-61-13691-5	140
	Free	E			
	67.-	E	36548	92-61-13731-8	

NO IMAGE  
AVAILABLE

## Migration to IMT-2000 Systems - Supplement 1 (Revision 1) of the Handbook on Deployment of IMT-2000 Systems

2011




This revised Supplement expands on the first edition of the ITU Handbook - Deployment of IMT- 2000 Systems and updates much of the work that has occurred since the release of the Handbook. It addresses the subject of evolution and migration from current mobile systems towards IMT-2000. ITU-R has developed this work in response to ongoing liaison and interaction with the ITU-D and ITU-T Sectors and sees this material as the natural extension of the information presented in the Handbook.

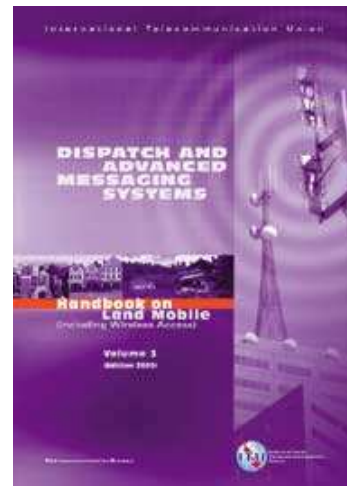
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	95.-	E	36549	92-61-13741-5	138
	Free	E			
	95.-	E	36550	92-61-13751-2	

## Land Mobile (including Wireless Access) - Volume 3: Dispatch and Advanced Messaging Systems

2005

The purpose of the Land Mobile Handbook is to assist in the decision-making process involving planning, engineering and deployment of land mobile systems, especially in the developing countries. It should also provide adequate information to assist in training engineers and planners in regulating, planning, engineering and deployment aspects of these systems. Volume 3 on Dispatch and Advanced Messaging Systems provides information on state-of-the-art technology in terrestrial land mobile paging and advanced messaging and dispatch as well as descriptions of typical systems. The technical content is intended for use by administrations and operators in both developing and developed countries.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	24.-	E	28236	92-61-11371-0	48
		F	29123	92-61-11372-9	52
		S	29124	92-61-11373-7	52
		A	28574	92-61-11376-1	50
		C	28575	92-61-11375-3	48
		R	28573	92-61-11374-5	48
	Free	E			
		F			
		S			
		A			
		C			
		R			
	24.-	E, F, S, A, C, R	29389	92-61-11387-7	

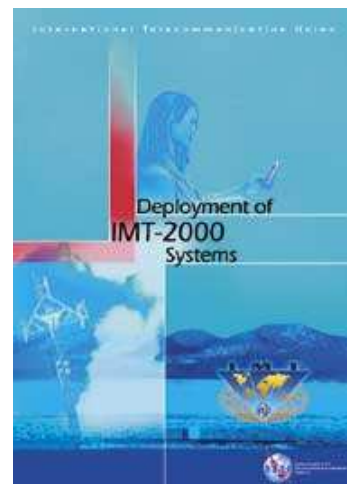


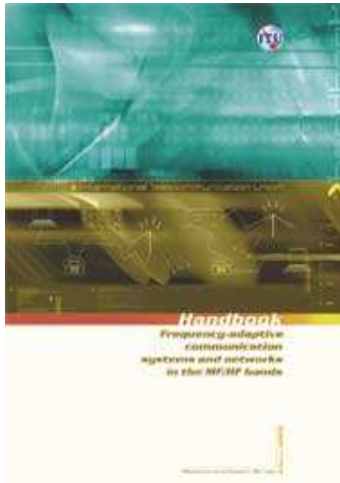
## Deployment of IMT-2000 Systems

2003

This Handbook addresses a variety of issues related to the deployment of IMT-2000 systems, to inform and guide key decision-makers on critical aspects concerning third-generation mobile communication systems, to facilitate decisions on the selection of options and strategies for the introduction of their IMT-2000 networks.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	100.-	E	23893	92-61-10401-0	212
		F	23895	92-61-10402-9	212
		S	23896	92-61-10403-7	212
		R	26502	92-61-10404-5	210
	Free	E			
		F			
		S			
		R			
	100.-	E, F, S	23894	92-61-10437-1	





## Frequency adaptive communication systems and networks in the MF/HF bands

2002

This Handbook is published to assist planners and decision-makers in the deployment of adaptive MF/HF systems in the fixed service, for both commercial and government users in developed and particularly developing countries. It provides material on current present technological capabilities in the field of adaptive MF/HF communications.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	32.-	E	22296	92-61-10141-0	65
		F	22297	92-61-10142-9	66
		S	22298	92-61-10143-7	65
		R	25614	92-61-10144-5	66
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		F			
		S			
		R			

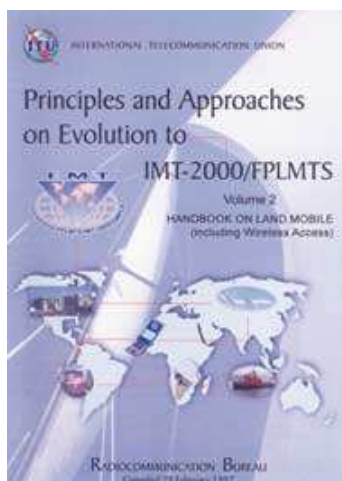


## Land Mobile (including Wireless Access) - Volume 1: Fixed Wireless Access

2001

The purpose of this Handbook is to assist in the decision making process involving planning, engineering and deployment of wireless access based land mobile systems, especially in the developing countries. It should also provide adequate information that will assist in training engineers and planners in regulating, planning, engineering, and deployment aspects of these systems.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	35.-	E	19474	92-61-09321-3	196
		F	19475	92-61-09322-1	196
		S	19476	92-61-09323-X	196
	Free	E			
		F			
		S			

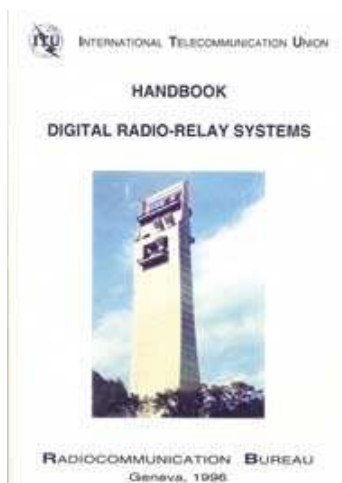


## Land Mobile (including Wireless Access) - Volume 2: Principles and Approaches on Evolution to IMT-2000/FPLMTS

1997

This volume of the Handbook provides an overview of principles and approaches to be considered in the evolution of existing and emerging systems towards IMT-2000. IMT-2000 are third generation mobile systems which are scheduled to start service around the year 2000, subject to market considerations.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	16.-	E	11067	92-61-06581-3	
		F	11185	92-61-06582-1	
		S	11186	92-61-06583-X	
		A	12799	92-61-06586-4	
		C	15942	92-61-06585-6	
		R	13856	92-61-06584-8	
	Free	E			
		F			
		S			



## Digital Radio-Relay Systems

1996

This Handbook represents a comprehensive summary of basic principles, design parameters and current practices for the design and engineering of digital radio-relay systems.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	50.-	E	7019	92-61-06281-4	418
		F	7020	92-61-06282-2	400
		S	7021	92-61-06283-0	452
		A	12981	92-61-06286-5	418
		C	24549	92-61-06285-7	400
		R	11853	92-61-06284-9	400
	Free	E			
		F			
		S			
		A			

## IMT-2000: Special Edition

2000

This CD-ROM is of particular interest to experts involved in IMT-2000 radio and network standards development and also to all those interested in a deeper understanding of the global scene of personal mobile communications. It contains a complete set of ITU texts on IMT-2000 and other related topics and includes Recommendation ITU-R M.1457 which describes the detailed specifications of the radio interfaces of IMT-2000.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	50.-	E, F, S	18124	92-61-08631-4	

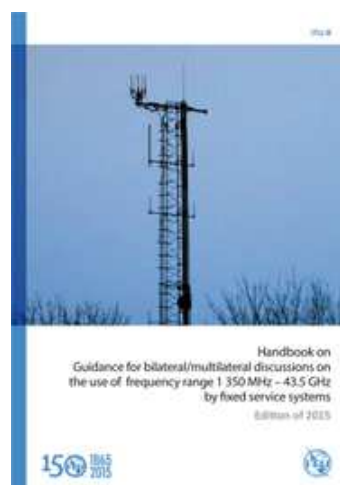


## Guidance for bilateral/multilateral discussions on the use of frequency range 1 350 MHz - 43.5 GHz by fixed service systems

2015

This Handbook summarizes the existing technical approaches to resolve compatibility and sharing issues within fixed service stations. The objective is to provide a guide addressing best practices from those administrations already having knowledge and experience in developing such agreements. Examples are provided to facilitate the sharing of fixed service deployed in the neighbouring countries.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	49.-	E	39628	978-92-61-15531-5	64
		F	39725	978-92-61-15532-2	
		S	39726	978-92-61-15533-9	
		A	39727	978-92-61-15536-0	
		C	39728	978-92-61-15535-3	
		R	39729	978-92-61-15534-6	
	Free	E			






57

## Broadcasting service

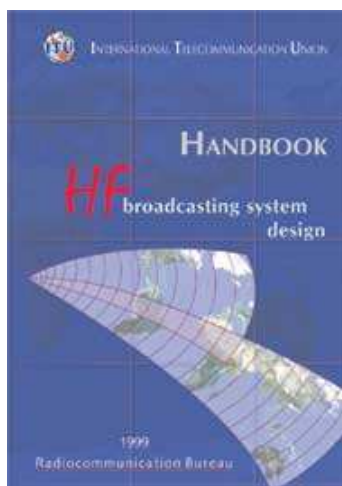
### DTTB Handbook - Digital terrestrial television broadcasting in the VHF/UHF bands

2002

This Handbook provides guidance to engineers responsible for the implementation of digital terrestrial television broadcasting and combines material dealing with digital and analogue television systems and planning aspects of this new topic.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	100.-	F	21454	92-61-09912-2	274
		S	21455	92-61-09913-0	274
		R	22954	92-61-09914-9	274
	Free	E F S R			
	100.-	E, F, S	24058	92-61-10447-9	







## HF Broadcasting System Design

1999

This Handbook provides practical and illustrative guidance (even to radio engineers not having been previously exposed to the specific task of HF broadcasting service planning). Considerable effort has been made to meet the expectations of HF broadcasting engineers from the developing world. This publication includes relevant texts from existing ITU-R Recommendations as well as advanced material.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	28.-	E	11251	92-61-06651-8	168
		F	11252	92-61-06652-6	
		S	11253	92-61-06653-4	
		A	17486	92-61-06656-9	100
		R	24550	92-61-06654-2	100
	Free	E			

## 2.7 Software and Databases

### Space Network Systems (SNS)

NO IMAGE  
AVAILABLE

The Space Network Systems Online service gives access to the Space Networks Systems Database of the Radiocommunication Bureau of the ITU. The database, updated bi-weekly, contains AP4 data of geostationary and non-geostationary satellite filings, and Earth station filings. Through predefined queries, the service retrieves data such as: lists of satellites or Earth stations; specific beams/antennas, frequencies, emissions, coordination information; advance publications subject to coordination; and Due Diligence publication data, among others. In addition, a brief overview of the Radio Regulations referring to Space Services is provided. This service is an essential reference tool for government agencies, public and private telecommunication operating agencies, manufacturers, scientific/industrial entities, international organizations, consultants, technical colleges, universities, etc. Free of charge to TIES users. Access to database: <http://www.itu.int/sns>


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	630.-	E			

## 2.8 ITU-R Administrative Volumes

### Book of ITU-R Resolutions



The Resolutions contained in this book are those in force as at the end of the Radiocommunication Assembly held from 21 to 25 October 2019, in Sharm el-Sheikh, Egypt. Available free of charge, below (no production of printed copies for sale).



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			
		F			
		S			
		A			
		C			
		R			

## 3.1 Regulations

### International Telecommunication Regulations - Melbourne - (WATTC-88)

Melbourne, 1988

"These Final Acts incorporate International Telecommunication Regulations. The purpose of these Regulations is to establish general principles which relate to the provision and operation of international telecommunication services offered to the public as well as to the underlying international telecommunication transport means used to provide such services. These Regulations are also established with a view to facilitating global interconnection and interoperability of telecommunication facilities and to promoting the harmonious development and efficient operation of technical facilities, as well as the efficiency, usefulness and availability to the public of international telecommunication services."


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	27.-	E	1561	92-61-03921-9	122
		F	1562	92-61-03922-7	110
		S	1563	92-61-03923-5	110
		A	1566	92-61-03926-X	80
		C	1565	92-61-03925-1	110
		R	1564	92-61-03924-3	110
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		F			
		S			
		A			
		C			
		R			

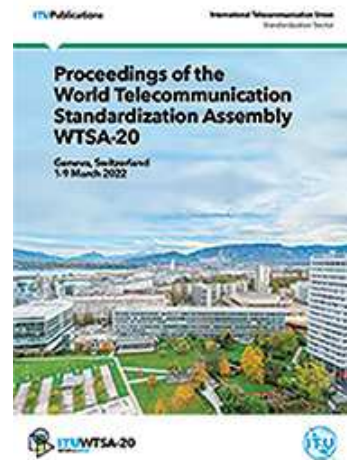


### Proceedings of the World Telecommunication Standardization Assembly 2020

2022

The Proceedings contain Resolutions (Rules of Procedure of ITU-T; study group responsibility and mandates; publication of ITU-T Recommendations and WTSA proceedings, etc.), ITU-T A-series Recommendations (Organization of the work of ITU-T), study groups and other groups, the list of questions for the study period 2022-2024 and reports as approved by WTSA-2020.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			





## Proceedings of the World Telecommunication Standardization Assembly

Hammamet, 2016

The Proceedings contain Resolutions (Rules of Procedure of ITU-T; study group responsibility and mandates; publication of ITU-T Recommendations and WTSA proceedings, etc.), ITU-T A-series Recommendations (Organization of the work of ITU-T), study groups and other groups, the list of questions for the study period 2017-2020 and reports as approved by WTSA-2016.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	181.-	E	40810	978-92-61-20001-5	482
		F	40811	978-92-61-20002-2	468
		S	40812	978-92-61-20003-9	480
		A	40813	978-92-61-20006-0	474
		C	40814	978-92-61-20005-3	478
		R	40815	978-92-61-20004-6	464
	Free	E			
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		S			
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		R			

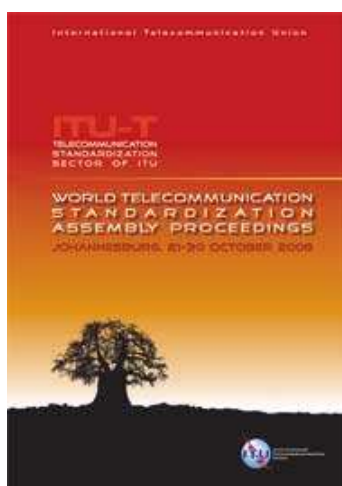


## World Telecommunication Standardization Assembly Proceedings

Dubai, 2012

The Proceedings contain Resolutions (Rules of Procedure of ITU-T; study group responsibility and mandates; publication of ITU-T Recommendations and WTSA proceedings, etc.), ITU-T A-series Recommendations (Organization of the work of ITU-T), study groups and other groups, the list of questions for the study period 2013-2016 and reports as approved by WTSA-2012.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	148.-	E	37803	978-92-61-14201-8	436
		F	37804	978-92-61-14202-5	436
		S	37805	978-92-61-14203-2	436
		A	37806	978-92-61-14206-3	436
		C	37807	978-92-61-14205-6	436
		R	37808	978-92-61-14204-9	436
	Free	E			
		F			
		S			
		A			
		C			
		R			
	148.-	E, F, S, A, C, R	37809	978-92-61-14217-9	



## World Telecommunication Standardization Assembly Proceedings

Johannesburg, 2008

WTSA proceedings contain Resolutions adopted by the assembly, Recommendations on the organization of the work of ITU T (A-series), the list of the study groups, the advisory group and any other groups established or maintained by the assembly, with their titles and general areas of work, the titles of the Questions (continuing or newly approved for study) and their allocation, and the reports of the committees of the assembly.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	111.-	E	33595	92-61-12811-4	300
		F	33596	92-61-12812-2	328
		S	33597	92-61-12813-0	320
		A	33599	92-61-12816-5	308
		C	33600	92-61-12815-7	300
		R	33598	92-61-12814-9	300
	Free	E			
		F			
		S			
		A			
		C			
		R			
	111.-	E, F, S, A, C, R	34014	92-61-12907-2	

## 3.2 ITU-T Recommendations

The ITU-T Recommendations developed by the ITU Telecommunication Standardization Sector are standards that define how telecommunication networks operate and interwork. They are based on studies on technical, operating and tariff questions and serve to standardize telecommunications on a worldwide scale. Although non-binding, they are widely used because they enable the interconnectivity and interoperability of networks and the provision of worldwide telecommunication services. At present, more than 4000 ITU-T Recommendations on some 140 000 pages are in force on topics from service definition to network architecture and security, and from dial-up modems and IP-related issues to Gbit/s optical transmission systems, next-generation networks (NGN), Internet of Things and cloud computing.

ITU-T Recommendations are made available individually as soon as they are prepared in ITU-T Study Groups and approved by ITU-T Members. Some Recommendations include electronic attachments that can also be downloaded for free either zipped with the Recommendation or from the ITU website. New and revised ITU T Recommendations are announced through the ITU News magazine, email notifications and the List of ITU-T Recommendations on the ITU website, which can be found at <http://www.itu.int/ITU-T/recommendations/index.aspx>. Most recommendations are available for free download but can also be bought on DVD-ROM.

<i>Series</i>	<i>Subject area</i>
A	Organization of the work of ITU-T
D	Tariff and accounting principles and international telecommunication/ICT economic and policy issues
E	Overall network operation, telephone service, service operation and human factors
F	Non-telephone telecommunication services
G	Transmission systems and media, digital systems and networks
H	Audiovisual and multimedia systems
I	Integrated services digital network
J	Cable networks and transmission of television, sound programme and other multimedia signals
K	Protection against interference
L	Environment and ICTs, climate change, e-waste, energy efficiency; construction, installation and protection of cables and other elements of outside plant
M	Telecommunication management, including TMN and network maintenance
N	Maintenance: international sound programme and television transmission circuits
O	Specifications of measuring equipment
P	Telephone transmission quality, telephone installations, local line networks
Q	Switching and signalling, and associated measurements and tests
R	Telegraph transmission
S	Telegraph services terminal equipment
T	Terminals for telematic services
U	Telegraph switching
V	Data communication over the telephone network
X	Data networks, open system communications and security
Y	Global information infrastructure, Internet protocol aspects, next-generation networks, Internet of Things and smart cities
Z	Languages and general software aspects for telecommunication systems

## 3.2 Handbooks

### Network planning



#### Future networks

2012

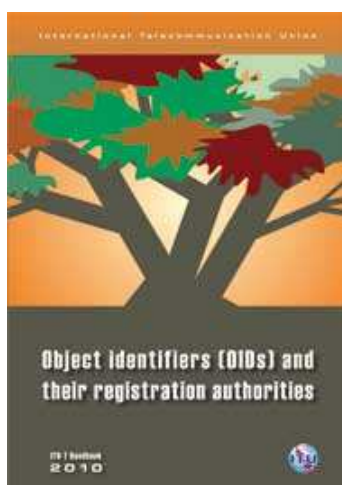
This ITU-T Handbook reviews the work to date on future networks. The development of future networks is driven by, on the one hand, the perceived challenges that are faced by networks at the moment and, on the other hand, by the continual development of new applications and technology. The work on future networks is broad in scope and covers not only technological issues but also social, economic and environmental aspects.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	22.-	E	37306	978-92-61-14041-0	32
		F	37307	978-92-61-14042-7	40
		S	37308	978-92-61-14043-4	40
		A	37309	978-92-61-14046-5	38
		C	37311	978-92-61-14045-8	32
		R	37310	978-92-61-14044-1	40
	22.-	E			
		F			
		S			
		A			
		C			
		R			

### Formal Languages

#### Object identifiers (OIDs) and their registration authorities

2010





This Handbook provides information on the use of Object Identifiers (OIDs). It consists of several parts, which will be of interest to different audiences. Part 1 is a general introduction. Part 2 contains historical and background information of a largely tutorial nature. Part 3 provides a full description of the structure of the International OID tree, the high-level arcs and major branches, and the notations and encodings used for expressing OID values. Part 4 is concerned with the practical use of OIDs. It introduces the OID repository and the ITU-T module database. It describes some of the early and current uses of OIDs. Part 5 covers more recent developments, including the International Object Identifier tree, Unicode labels and long arcs. Part 6 discusses the OID Resolution System (ORS) using the Domain Name System (DNS). Part 7 contains instructions on how to obtain an OID for various purposes, and how to manage a sub-authority for allocation of a node to children, including information on actions needed to make use of the ORS. There are several Annexes (of which the most important are probably those concerned with the setting up and operation of a national registration authority) and a bibliography.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	33.-	E	36615	92-61-13781-4	64
		F	36616	92-61-13782-2	72
		A	36619	92-61-13786-5	74
		C	36621	92-61-13785-7	62
		R	36618	92-61-13784-9	64
	33.-	E			
		F			
		S			
		A			
		C			
		R			

## Protection against electromagnetic effects

### Mitigation measures for telecommunication installations - Part 1 2008



This Handbook describes case studies, supplied by ITU-T Study Group 5 members, of electromagnetic compatibility (EMC) interference problems that have affected telecommunication systems related to emission and immunity, overvoltage and overcurrent, and the solutions to such problems. This handbook also indicates typical sources of interference as well as the solutions that can be used to restore correct service to the system or to avoid any such problems before they manifest themselves. Whilst this handbook does not cover measurement methods or how to measure emissions, overvoltage or overcurrent, as these are covered within other ITU-T Recommendations, it does, through the case studies, suggest how to detect certain problems. The electronic version of part 2 is free of charge. [www.itu.int/ITU-T/mitigation/mitigation-p2.html](http://www.itu.int/ITU-T/mitigation/mitigation-p2.html)

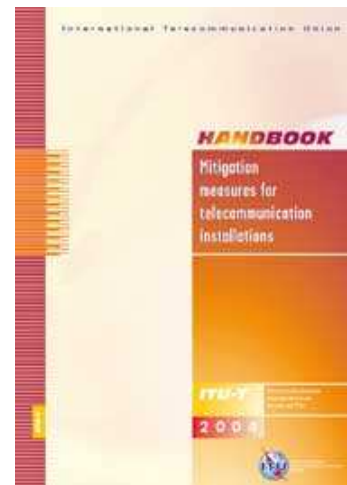
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	41.-	E	35223	92-61-13151-4	50
		F	35224	92-61-13152-2	54
		S	35225	92-61-13153-0	56
		A	35227	92-61-13156-5	50
		C	35228	92-61-13155-7	50
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	41.-	E			
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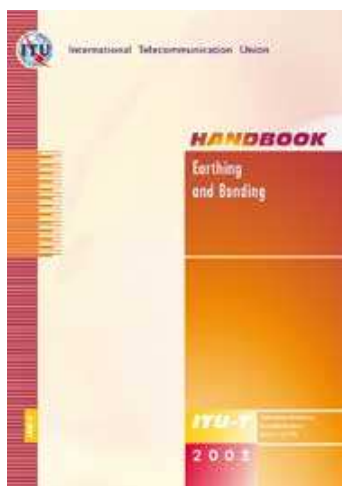


### Mitigation measures for telecommunication installations 2004

This Handbook describes case studies, supplied by ITU-T Study Group 5 members, of electromagnetic compatibility (EMC) interference problems that have affected telecommunication systems related to emission and immunity, overvoltage and overcurrent and the solutions to such problems. This handbook also indicates typical sources of interference as well as the solutions that can be used to restore correct service to the system or to avoid any such problems before they manifest themselves. Whilst this handbook does not cover measurement methods or how to measure emissions, overvoltage or overcurrent as these are covered within other ITU-T Recommendations, it does, through the case studies, suggest how to detect certain problems.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	39.-	E	26974	92-61-11181-5	94
		F	27295	92-61-11182-3	104
		S	27296	92-61-11183-1	96
		A	28730	92-61-11186-6	94
		C	28731	92-61-11185-8	94
		R	28732	92-61-11184-X	92
	39.-	E			
		F			
		S			
		A			
		C			
		R			





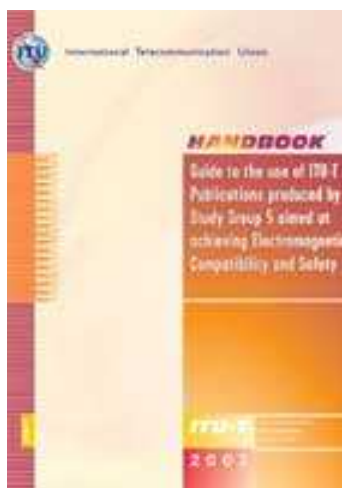


## Earthing and Bonding

2003

This ITU-T Handbook on Earthing and Bonding is for use by engineers designing telecommunication systems, especially those concerned with applying protective measures. It aims to give the user a background to various terms used within the telecommunication and power industry regarding earthing and bonding of equipment and structures (Chapter 1) in various parts of the world. The concepts of earthing and bonding are described (Chapter 2) together with how to implement such methods (Chapters 3 and 4), detailing why these are necessary and what the results may be if they are not performed correctly. The final section of the handbook shows how to evaluate and maintain the effectiveness/quality of the earthing systems and bonding networks thus created.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	34.-	E	24087	92-61-10471-1	76
		F	24088	92-61-10472-X	86
		S	24089	92-61-10473-8	86
		R	26871	92-61-10474-6	78
	34.-	E			
		F			
		S			
		R			

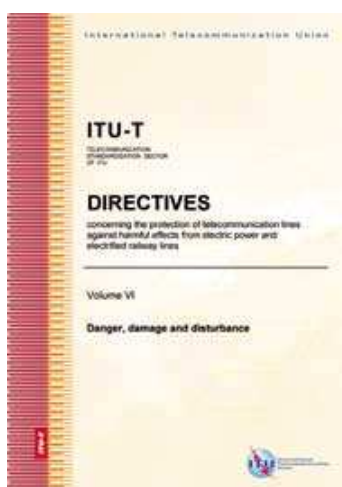


## Guide to the use of ITU-T Publications produced by Study Group 5 aimed at achieving Electromagnetic Compatibility and Safety

2002

This guide presents an overview of the ITU-T documents (prepared by Study Group 5) giving information on measures to achieve electromagnetic compatibility for telecommunication equipment and installations. This Guide is aimed at telecommunication equipment designers and operators and is also helpful for users in developing countries.


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	17.-	E	20954	92-61-09681-6	36
		F	20955	92-61-09682-4	36
		S	20956	92-61-09683-2	36
	25.-	E			
		F			
		S			



## Directives concerning the protection of telecommunication lines against harmful effects from electric power and electrified railway lines - Volume VI: Danger, damage and disturbance

2008



"These Directives describe the danger to telecommunication system workers and users and damage to equipment as well as the interference to transmission of information that may occur as a result of the proximity of telecommunication system installations to electric power and electrified railway installations. It also describes the conditions that may result in danger to telecommunication system workers and users or damage to equipment. It must be emphasized that although the possibility of danger may exist, the probability of damage to equipment is small and the likelihood of injury is very remote. In addition, it states the conditions that may result in interference to the transmission of information because of the influence of electrical power and electrified railway installations. The likelihood of transmission degradation is significantly increased by such factors as exposure length, earth return currents, harmonic content of power current, cable shielding and longitudinal balance."

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	38.-	E			
		F			
		S			
		A			
		C			
		R			

# Directives concerning the protection of telecommunication lines against harmful effects from electric power and electrified railway lines - Volume V: Inducing currents and voltages in power transmission and distribution systems

2008

The Directives provide a comprehensive description of electromagnetic effects due to the close proximity of telecommunication lines to power and electrified railway systems. Such effects may result in danger to personnel, damage to telecommunication equipment, deterioration of telecommunication transmission quality or disturbance of signalling. Volume V: "Inducing currents and voltages in power transmission and distribution systems" describes balanced and unbalanced power systems in normal operation and under fault conditions.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	51.-	S			
	26.-	E F A C R			

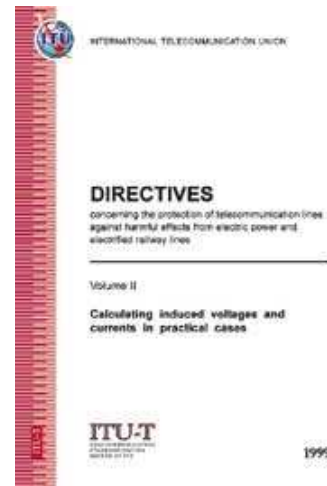


# Directives concerning the protection of telecommunication lines against harmful effects from electric power and electrified railway lines - Volume II: Calculating induced voltages and currents in practical cases

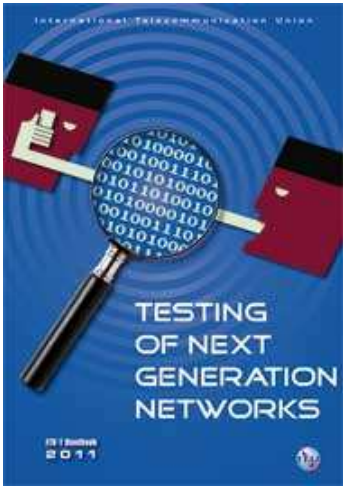
1999

The Directives provide a comprehensive description of electromagnetic effects due to the close proximity of telecommunication lines to power and electrified railway systems. Such effects may result in danger to personnel, damage to telecommunication equipment, deterioration of telecommunication transmission quality or to disturbance of signalling. Volume II - Calculating induced voltages and currents in practical cases - describes the methods for evaluating voltages and currents resulting from capacitive, inductive and conductive coupling in a variety of commonly-encountered situations.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	160.-	E F S	15034 15065 15068	92-61-08001-4 92-61-08002-2 92-61-08003-0	620 620 620
	80.-	E F S			



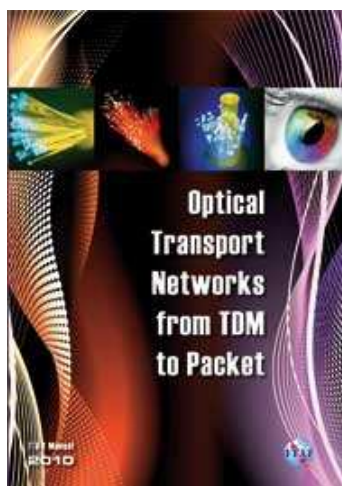
Implementation guidelines



Testing of next generation networks  
2011

This Handbook describes the general approach to testing of next generation networks (NGNs). Its goal is to assist administrations and operators in the implementation of testing as a method to verify network and services development strategies, but it can be used by vendors as well. It also discusses interoperability problems that could appear during network or service implementation.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	36.-	E	36737	92-61-13811-X	52
		F	36738	92-61-13812-8	58
		S	36739	92-61-13813-6	58
		A	36741	92-61-13816-0	56
		C	36742	92-61-13815-2	54
		R	36740	92-61-13814-4	54
	36.-	E			
		F			
		S			
		A			
		C			
		R			

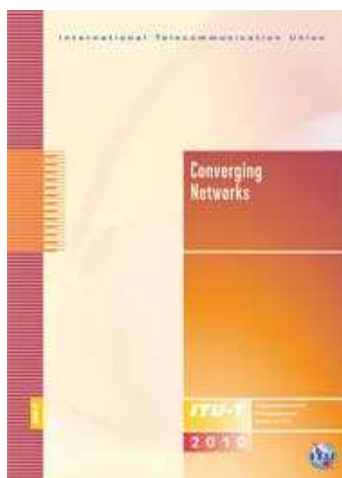


## Optical Transport Networks from TDM to Packet

2010

This Handbook discusses the technologies covered by ITU-T Recommendations related to Synchronous Digital Hierarchy (SDH), Optical Transport Network (OTN) and Ethernet over Transport (EoT). Each chapter of this Handbook is dedicated to a specific aspect (architecture, multiplexing hierarchy, protection, synchronization, etc.) of SDH, OTN and EoT optical transport networks. Plesiochronous Digital Hierarchy networks, which are at present considered obsolete, and Multiprotocol Label Switching - Transport Profile, which is at a preliminary stage of standardization, are only mentioned in the Preface. Finally, the last chapter of the Handbook discusses automatically switched optical networks (ASON), based on the control planes introduced in addition to transport planes and management planes.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	139.-	E	36443	92-61-13551-X	302
		F	36444	92-61-13552-8	344
		S	36445	92-61-13553-6	324
		A	36447	92-61-13556-0	310
		C	36448	92-61-13555-2	306
		R	36446	92-61-13554-4	306
	139.-	E			
		F			
		S			
		A			
		C			
		R			
	139.-	E	36450	92-61-13561-7	
		E, F, S, A, C, R	36449	92-61-13577-3	



## Converging networks

2010



This Handbook presents the ITU-T Recommendations on next generation networks in the context of the ongoing convergence of the telecommunications and media industries.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	75.-	E	36048	92-61-13331-2	182
		F	36049	92-61-13332-0	192
		S	36050	92-61-13333-9	194
		A	36052	92-61-13336-3	198
		C	36053	92-61-13335-5	184
		R	36051	92-61-13334-7	182
	75.-	E			
		F			
		S			
		A			
		C			
		R			

## DSL story

2010

This Handbook provides an overview of the 18 ITU-T Recommendations dealing with the xDSL technology published as of the end of 2009. After a brief introduction of the xDSL technology, the xDSL Recommendations are grouped into nine categories: HDSL and SHDSL, five ADSL (G.992.2, splitterless ADSL, ADSL2 reach extended, splitterless ADSL2 and ADSL2plus) and two VDSL (VDSL1 and VDSL2). Operations and signalling principles of these nine families of xDSL systems are presented, emphasizing the commonalities.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	79.-	E	36054	92-61-13371-1	176
		F	36055	92-61-13372-X	196
		S	36056	92-61-13373-8	190
		A	36058	92-61-13375-4	184
		C	36059	92-61-13376-2	170
		R	36057	92-61-13374-6	180
	79.-	E			
		F			
		S			
		A			
		C			
		R			



## Deployment of packet-based networks

2009

This Handbook presents guidelines for operators planning migration of PSTN/ISDN services to packet-based networks in the evolution to next-generation networks.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	26.-	E	35348	92-61-13181-6	30
		F	35349	92-61-13182-4	32
		S	35350	92-61-13183-2	32
		A	35356	92-61-13186-7	32
		C	35357	92-61-13185-9	30
		R	35352	92-61-13184-0	28
	26.-	E			
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		S			
		A			
		C			
		R			





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## Quality of service

### Practical procedures for subjective testing

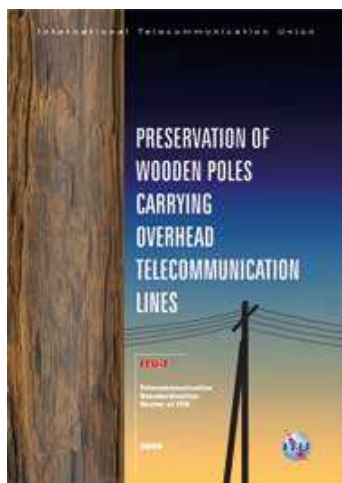
2011

This Handbook describes practical procedures to be used to quantify the perceived audio quality of end-to-end speech and audio communication systems.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	60.-	E	36622	92-61-13791-1	104
		F	36623	92-61-13792-X	110
		S	36624	92-61-13793-8	
		A	36626	92-61-13796-2	104
		C	36627	92-61-13795-4	102
		R	36625	92-61-13794-6	104
	60.-	E			
		F			
		S			
		A			
		C			
		R			





## Outside plant



### Preservation of Wooden Poles Carrying Overhead Telecommunication Lines

2009

Since the problems of preserving wood against biological agents depend on the region, they have to be studied mainly in a regional context by joint groups of technicians, producers and users of poles.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	35.-	E	35209	92-61-13141-7	46
		F	35210	92-61-13142-5	46
		S	35211	92-61-13143-3	46
		A	35213	92-61-13146-8	46
		C	35214	92-61-13145-X	46
		R	35212	92-61-13144-1	46
	35.-	E			
		F			
		S			
		A			
		C			
		R			

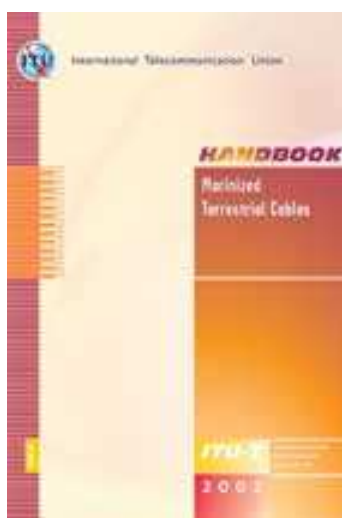


### Protection of Telecommunication Buildings from Fire

2002

In a telephone building, the losses from damage caused by fire not only affect the persons and property directly involved in the calamity, but are felt throughout the population due to the effects of the service breakdown and the consequent loss of earnings from the service provider point of view. Moreover, the amount of information and services available to the customers is so high, nowadays, that equipment, buildings, infrastructures and installations need to be protected from damage due to calamities, including fire. This Handbook is specific to the prevention of damage and the protection of telecommunication buildings from fire.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	28.-	E	19255	92-61-09311-6	44
		F	19256	92-61-09312-4	44
		S	19257	92-61-09313-2	44
		R	23320	92-61-09314-0	44
	28.-	E			
		F			
		S			
		R			



### Marinized Terrestrial Cables

2002



The use of underwater optical cables, considered as coming under the heading of terrestrial links, has dramatically increased in recent years. This Handbook describes the characteristics, including the installation methods and testing, of a particular type of underwater cable known as marinized terrestrial cable (MTC), which, based on a conventional multiple fibre terrestrial cable core, is protected to withstand the shallow water environment and designed for specific repeaterless applications.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	34.-	E	20502	92-61-09451-1	68
		F	20503	92-61-09452-X	68
		S	20504	92-61-09453-8	68
		R	22956	92-61-09454-6	68
	34.-	E			
		F			
		S			

## Application of Computers and Microprocessors to the Construction, Installation and Protection of Telecommunication Cables

1999

The first edition of this Handbook was published in 1994. Due to the rapid development of technologies, a second edition was considered useful to include new applications for computers and microprocessors, taking into account that many countries are adopting such devices and equipment. Outside plant occupies a wide area which requires a large amount of investment and a huge amount of work on design, construction, installation and protection, especially considering the new telecommunication services now available and the future role of access networks.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	20.-	E	14517	92-61-07891-5	40
		F	14695	92-61-07892-3	40
		S	14696	92-61-07893-1	40
		A	19211	92-61-07896-6	40
	20.-	E			
		F			
		S			





## Measurement Methods

### Interference measuring techniques

2002

This Handbook contains information on EMC design of telecommunication equipment and discusses certain EMC test methods. Together with «Volume IX» of the «Directives», this Handbook provides comprehensive information on EMC and over-voltage testing and measurements.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	38.-	E	20506	92-61-09481-3	72
		F	20505	92-61-09482-1	72
		S	20507	92-61-09483-X	72
		R	25757	92-61-09484-8	70
	38.-	E			
		F			
		S			
		R			



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## 3.3 Proceedings

### Proceedings of ITU Kaleidoscope 2021: Connecting physical and virtual worlds

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			





## Proceedings of ITU Kaleidoscope 2020: Industry-driven digital transformation

These proceedings include two keynote papers, two keynote summaries, an invited paper, and all twenty papers that have been selected for this twelfth in a series of peer-reviewed academic conferences organized by ITU to bring together a wide range of views from universities, industry, and research institutions, with an aim to identify emerging advancements in information and communication technologies (ICTs) and, in particular, areas in need of international standards to aid the healthy development of the Information Society.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Proceedings of ITU Kaleidoscope 2017: Challenges for a data-driven society

Data is becoming the key to smart governance, supporting the delivery of citizen-centric public services. Data-driven insight will enable efficiency gains in every industry sector. Advances in data science will continue to unlock major breakthroughs in research. We saw all of these possibilities in the papers presented at Kaleidoscope 2017: Challenges for a data-driven society. The Kaleidoscope 2017 Technical Programme Committee selected 23 papers from the 63 submissions received from 22 countries on the basis of double-blind reviews, with the help of almost 80 international experts. The conference encouraged the development of data-driven applications and services of benefit to society. It highlighted the importance of a shared, integrated data ecosystem in maximizing the collective benefits to be drawn from our fast-growing wealth of data. The Kaleidoscope Conference Proceedings from 2009 onwards can be downloaded free of charge from <http://itu-kaleidoscope.org>

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Proceedings of ITU Kaleidoscope 2016: ICTs for a Sustainable World

These Proceedings contain all the papers accepted for the conference ITU Kaleidoscope 2016: "ICTs for a Sustainable World" - Bangkok, Thailand, 14-16 November 2016. The aim of Kaleidoscope conferences is to identify emerging developments in information and communication technologies (ICTs) and, in particular, areas in need of international standards to support the development of successful products and services. The papers at K-2016 presented research into ICT technical developments, innovative ICT applications and policy and regulatory considerations relevant to supporting the achievement of the United Nations Sustainable Development Goals (SDGs). The papers accepted for the conference were reviewed by a panel of over 130 subject matter experts from leading academic and research institutions worldwide.

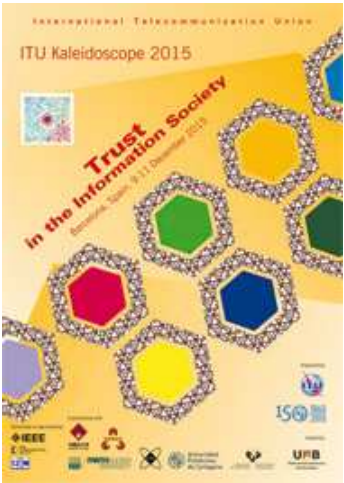
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

Proceedings of ITU Kaleidoscope 2015: Trust in the Information Society

2015

These Proceedings contain all the papers accepted for the conference ITU Kaleidoscope 2015: "Trust in the Information Society" - Barcelona, Spain, 9-11 December 2015. The aim of Kaleidoscope conferences is to identify emerging developments in information and communication technologies (ICTs) and, in particular, areas in need of international standards to support the development of successful products and services. The papers at K-2015 analyzed means of building information infrastructures deserving our trust. The event highlighted ideas and research that will help ensure the Information Society's growth in inclusivity and sustainability thanks to its trusted foundations. The papers accepted for the conference were reviewed by a panel of over 150 subject matter experts from leading academic and research institutions worldwide.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



Proceedings of ITU Kaleidoscope 2014: Living in a converged world - Impossible without standards?

2014

The Kaleidoscope 2014 conference - Living in a converged world - impossible without standards? - was the sixth in a series of peer-reviewed academic conferences organized by the Telecommunication Standardization Sector of the International Telecommunication Union (ITU-T) with the technical co-sponsorship of the IEEE Communications Society, the Institute of Electronics, Information and Communication Engineers (IEICE) of Japan, and the Popov Society of the Russian Federation. These papers at K-2014 focused on innovative approaches to research on the role of ICT standardization in today's global economy characterized by accelerating convergence of industry sectors and technologies. These conference proceedings include the full text of papers accepted for lecture and poster presentations (after a double-blind review by a panel of over 100 subject matters), as well as three invited papers and a summary of the keynote speeches. The 37 papers reproduced here should provide readers with valuable information relating to this essential field of studies. [www.itu-kaleidoscope.org/2014](http://www.itu-kaleidoscope.org/2014)

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



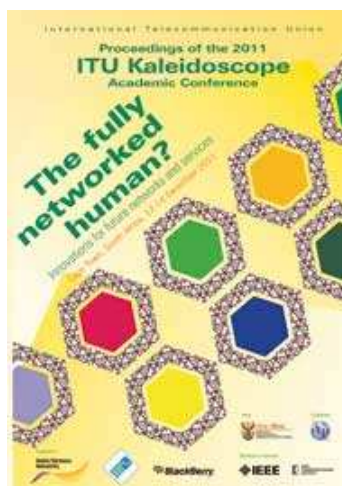
Proceedings of ITU Kaleidoscope 2013: Building Sustainable Communities - Kyoto, Japan, 22-24 April 2013

2013

The Kaleidoscope 2013 conference - Building Sustainable Communities - was the fifth in a series of peer-reviewed academic conferences organized by the Telecommunication Standardization Sector of the International Telecommunication Union (ITU-T) with the technical co-sponsorship of the IEEE Communications Society and the Institute of Electronics, Information and Communication Engineers of Japan (IEICE). These papers at K-2013 focused on multidisciplinary aspects of future ICTs including future services and applications demand as well as socio-economic, cultural, ethical, legal, and sustainable development policy aspects of communities of the future. These conference proceedings include the full text of papers accepted for lecture and poster presentations (after a double-blind review by a panel of over 140 subject matter experts), as well as three invited papers and a summary of the keynote speeches. The 33 papers reproduced here should provide readers with valuable information relating to this essential field of studies.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Proceedings of ITU Kaleidoscope 2011: The fully networked human? - Innovations for future networks and services - Cape Town, South Africa, 12-14 December 2011

2011

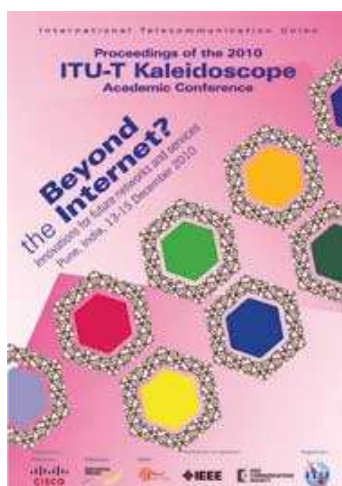
The Kaleidoscope 2011 conference - The Fully Networked human ? Innovations for future networks and services - was the forth in a series of peer-reviewed academic conferences organized by the Telecommunication Standardization Sector of the International Telecommunication Union (ITU-T) with the technical co-sponsorship of the IEEE Communications Society. These papers at K-2011 focused on multidisciplinary aspects of future ICTs including future services and applications demand as well as social, economic and policy aspects of human-centric systems. These conference proceedings include the full text of papers accepted for lecture and poster presentations (after a double-blind review by a panel of over 100 subject matter experts), as well as three invited papers and a summary of the keynote speeches. The 34 papers reproduced here should provide readers with valuable information relating to this essential field of studies.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Proceedings of ITU-T Kaleidoscope 2010: Beyond the Internet? - Innovations for future networks and services - Pune, India, 13-15 December 2010

2010

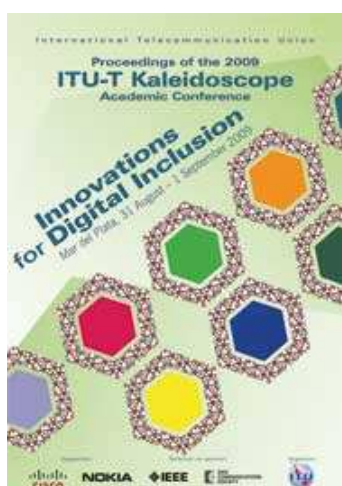
These Proceedings contain all the papers accepted for the ITU-T Kaleidoscope 2010 ?Beyond the Internet? - Innovations for future networks and services?, Pune, India, 13-15 December 2010. The ITU-T Kaleidoscope academic conferences aim at increasing the dialogue between experts working on the standardization of information and communications technologies (ICTs) and academia; by viewing technologies through a kaleidoscope, these forward-looking events also seek to identify new topics for standardization. The papers at K-2010 focused, from a wide perspective including both technological and socio-economic angles, on evolution of Internet technologies towards future networks and services. The papers accepted for the conference were reviewed by a panel of over 100 subject matter experts from leading academic and research institutions worldwide.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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Free

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## Proceedings of ITU-T Kaleidoscope: Innovations for Digital Inclusion - Mar del Plata, Argentina, 31 August - 1 September 2009

2009

These Proceedings contain all the papers accepted for the "ITU-T Innovations for digital inclusion" Kaleidoscope academic conference, Mar del Plata, Argentina, 31 August - 1 September 2009 - the second in a series organized by ITU-T. Technically co-sponsored by the IEEE Communications Society, the papers accepted for the conference were reviewed by a panel of over 90 subject matter experts to ensure high technical quality. The papers, coming from leading academic and research institutions all around the globe, analyse technologies, services and applications five years and beyond that will capitalize on NGN infrastructure and promote digital inclusion. The papers also cover multidisciplinary aspects, including regulatory and societal challenges as well as analysis of standardization needed. Invited papers also provide a broad perspective on the theme.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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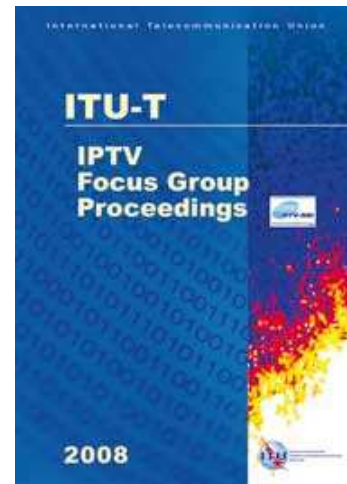
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## ITU-T IPTV Focus Group Proceedings

2008

"The mission of IPTV Focus Group is to coordinate and promote the development of global IPTV standards, taking into account the existing work of the ITU study groups as well as Standards Developing Organizations, Fora and Consortia. These proceedings follow the ITU-T IPTV meeting, which set out to define IPTV; carry out a review and gap analysis of existing standards and ongoing work; coordinate existing standardization activities; harmonize the development of new standards and encourage the interoperability with existing systems."

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



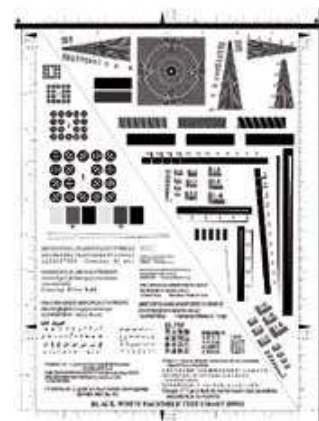
## 3.4 Test charts

### Test Chart No. 4: Black and white facsimile test chart BW01 - (ITU-T Recommendation T.22)

(03/93)

302 × 222 mm high contrast bi-level chart containing text in a variety of languages and pitches and various black and white patterns.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	5.- SQ	E	5494		1



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### Test Chart No. 5: Continuous tone facsimile test chart CT01 (ITU-T Recommendation T.22)

(03/93)

279 × 216 mm gray scale chart containing several strips and patches of various gray scale levels, and two photographs.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	26.-	E	11941		





#### Test Chart No. 6: 4-colour printing facsimile test chart 4CP01 (ITU-T Recommendation T.23)

(04/94)

302 × 222 mm full colour chart printed from 4-colour separation negatives, containing a complete range of patterns, textures, shadings and bright and pastel colours.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	9.-	E	10465		

### 3.5 General



#### ITU-T Standardization: Committed to connecting the world

2014

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			

## 4.1 General

### Global e-Waste Monitor

2020

This report is a joint effort of ITU, the United Nations University (UNU) and the International Solid Waste Association (ISWA). The report provides the most comprehensive overview of global e-waste statistics and introduces the wider public to the global e-waste challenge, explains how the challenge currently fits into international efforts to reach the SDGs, and discusses how to create a circular economy and sustainable societies.

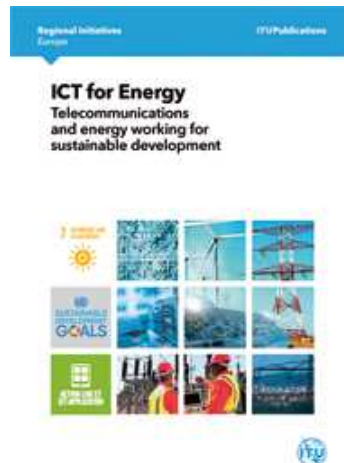


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			

### ICT for Energy - Telecommunications and energy working for sustainable development

2018

This report increases understanding of the interplay between actors, business models, services, and products of both ICT and energy sectors and sheds light on the importance of policy intervention to optimise resources and build sustainable synergies.

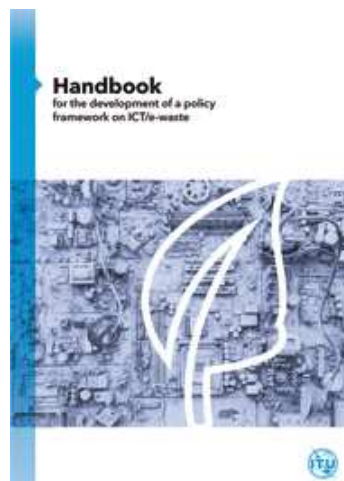


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

### Handbook for the development of a policy framework on ICT/E-WASTE

2018

This Handbook provides guidance on the key aspects to be taken into account when designing, implementing and improving a legal, regulatory and policy framework on ICT/e-waste. The proposed framework is intended to facilitate the management of ICT/e-waste based on the concepts of sustainable development, green ICT and the circular economy. Freely available for download in various formats, as noted below.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Connecting humanity

2020

Assessing investment needs of connecting humanity to the Internet by 2030. This newly released ITU publication is also available for free download via MyITU, where other titles with similar themes may be searched and accessed.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



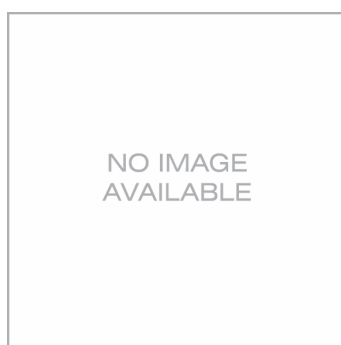
## Digital transformation and early warning systems for saving lives - Background paper

2023

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

NEW

76



## ICT4SDGs: ICT-centric economic growth, innovation and job creation

2017

The Sustainable Development Goals (SDGs) embody a universally shared vision of progress towards a safe, just and sustainable space for all human beings. The book, "ICT-centric economic growth, innovation and job creation", written by leading scholars and experts from around the world, aims to address the challenges and opportunities offered by ICTs in the areas of innovation, governance, education, job creation and economic growth. The book was launched at a Ministerial Roundtable on ICT4SDGs organized to celebrate the 25th Anniversary of the ITU Telecommunication Development Sector (ITU-D) on 11 October 2017 in Buenos Aires, Argentina. See a short introductory video on this ITU Publication from this link and order your hard-copies, now available, below.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	90.-	E	41540	978-92-61-24411-8	270

## Towards the harmonization of data collection - A baseline study for e-waste in East Africa

2023

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## 4.2 Statistics and Indicators

ITU hosts the world's most comprehensive collection of ICT data and statistics. It collects, harmonizes and disseminates more than 100 telecommunication and ICT indicators from over 200 economies around the world. ITU regularly publishes analytical reports illustrating the latest trends in the global telecommunication sector. These reports and databases are available online.

### Measuring digital development: Facts and Figures 2022

2022

The Facts and Figures series sheds light on the multiple facets and evolving nature of the digital divide and takes stock of the progress towards closing it. It serves as a powerful advocacy tool in efforts to put digital development at the top of the agendas of policymakers and of the development community.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



### Global Connectivity Report

2022

In the last 30 years, the number of Internet users surged from a few million to almost five billion. Yet the potential remains untapped because one-third of humanity remains offline, and many users only enjoy basic connectivity. The Global Connectivity Report 2022, released 6 June 2022, provides a detailed assessment of the current state of connectivity and presents solutions to meet this new imperative.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			



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### World Telecommunication/ICT Indicators Database USB Key 2023

The World Telecommunication/ICT Indicators database on USB Key and online contains time series data for the years 1960, 1965, 1970 and annually from 1975 to 2022 for more than 180 telecommunication/ICT statistics covering fixed-telephone networks, mobile-cellular telephone subscriptions, quality of service, Internet (including fixed- and mobile-broadband subscription data), traffic, staff, prices, revenue, investment and statistics on ICT access and use by households and individuals. Selected demographic, macroeconomic and broadcasting statistics are also included. For the July release, data for 2022 are available for selected indicators such as fixed-telephone subscriptions, mobile-cellular telephone subscriptions, mobile-broadband subscriptions, percentage of population covered by mobile networks, international Internet bandwidth, fixed-broadband subscriptions (total and by speed tiers), ICT prices, percentage of individuals using the Internet, percentage of households with computer and percentage of households with Internet. Data for over 200 economies are available. As per Council 2017, the current version of the database is available free of charge to Member States via an updated link and accessible with Member State TIES access only, not general TIES access. Otherwise please see the free data available in the ITU's new Data Hub. Kindly note that the complete WTID will be discontinued in 2024. The last release is expected in January 2024 containing the 2023 data collected from the long questionnaires. All the data collected by the ICT Data and Analytics Division are disseminated for free at the ITU DataHub (see above).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	281.-	E	45270	978-92-61-37981-0	

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### World Telecommunication/ICT Indicators Database

The World Telecommunication/ICT Indicators database on USB Key and online contains time series data for the years 1960, 1965, 1970 and annually from 1975 to 2021 for over 200 economies and 180+ telecommunication/ICT statistics covering fixed-telephone networks, mobile-cellular telephone subscriptions, quality of service, Internet (including fixed- and mobile-broadband subscription data), traffic, staff, prices, revenue, investment and statistics on ICT access and use by households and individuals. Selected demographic, macroeconomic and broadcasting statistics are also included. Data is presented by country, as submitted by each administration directly to ITU. The December 2022 edition USB key is available and includes 2021 statistics. See also the direct download option.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	281.-	E	44681	978-92-61-36741-1	

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### World Telecommunication/ICT Indicators Database USB Key 2021

The World Telecommunication/ICT Indicators database on USB Key and online contains time series data for the years 1960, 1965, 1970 and annually from 1975 to 2020 for more than 180 telecommunication/ICT statistics covering fixed-telephone networks, mobile-cellular telephone subscriptions, quality of service, Internet (including fixed- and mobile-broadband subscription data), traffic, staff, prices, revenue, investment and statistics on ICT access and use by households and individuals. Selected demographic, macroeconomic and broadcasting statistics are also included. This December release includes even more 2020 data for the 200+ economies. December 2021 USB key, now available; next edition June/July 2022 with preliminary 2021 statistics, expected in August 2022. See also the direct download option.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	281.-	E	43930	978-92-61-32881-8	

## Digital trends in the Americas region 2021: Information and communication technology trends and developments in the Americas region, 2017-2020

2021

This report provides an overview of trends and developments in ICT infrastructure, access and use in the Americas region, which includes 35 Member States and is home to a population of 1 billion people. The report highlights changes in ICT adoption since the last World Telecommunication Development Conference in 2017 (WTDC-17) and during the COVID-19 pandemic, tracks the evolution of regulation, and reviews progress and challenges in implementing the ITU regional initiatives for the Americas region. Its objective is to serve as a reference for the ITU membership in reviewing progress and identifying ICT development priorities in the Americas region.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Digital trends in Asia and the Pacific 2021 - Information and communication technology trends and developments in the Asia-Pacific region, 2017-2020

This report provides an overview of trends and developments in ICT infrastructure, access and use in Asia and the Pacific, which includes 38 Member States and is home to a population of 4.2 billion people. It highlights changes in information communication technology (ICT) adoption since the last World Telecommunication Development Conference in 2017 (WTDC-17) and during the COVID-19 pandemic, tracks the evolution of regulation, and reviews progress and challenges in implementing the ITU regional initiatives for Asia and the Pacific. Its objective is to serve as a reference for the ITU membership in reviewing progress and identifying ICT development priorities in Asia and the Pacific.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



79

## Digital trends in the Commonwealth of Independent States region 2021: Information and communication technology trends and developments in the CIS region, 2017-2020

2021

This report provides an overview of trends and developments in information and communication technology (ICT) infrastructure, access and use in the CIS region. The report highlights changes in ICT adoption since the last World Telecommunication Development Conference in 2017 (WTDC-17) and during the COVID-19 pandemic, tracks the evolution of regulation, and reviews progress and challenges in implementing the ITU regional initiatives for the CIS region.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			





## Digital trends in Europe 2021 - ICT trends and developments in Europe, 2017-2020

ITU data shows that more than 75 per cent of the total world population has an active mobile broadband subscription, and over 57 per cent of households have Internet access at home. Yet, the digital divide persists. While almost all urban areas in the world are covered by a mobile broadband network, many gaps persist in rural areas. The gender divide remains a reality, with still fewer women than men benefiting from Internet use. This report analyses trends, progress and challenges of digital transformation in the Europe region, which is home to 46 ITU State members and a population of 686 million people.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			
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## Measuring digital development - ICT price trends 2020

This free report monitors the affordability of ICT services by analysing and comparing price data for mobile-voice services, mobile data and fixed broadband for analysts, telecom operators, policy-makers and economists. It provides analysis in terms of dollar price, exchange-rate-adjusted prices and affordability for mobile-voice, mobile and fixed broadband according to internationally agreed baskets for services, including bundled services.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Measuring digital development - ICT Price Trends 2019

This free report monitors the affordability of ICT services by analysing and comparing price data for mobile-voice services, mobile data and fixed broadband for analysts, telecom operators, policy-makers and economists. It provides analysis in terms of dollar price, exchange-rate-adjusted prices and affordability for mobile-voice, mobile and fixed broadband according to internationally agreed baskets for services, including bundled services.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

## ICT Prices

2017

This report analyses prices of ICT services in more than 150 countries worldwide for the period 2008-2016, to arrive at an understanding of the affordability of ICT services. The trends of four sub-baskets - namely mobile-cellular, fixed-broadband, mobile-broadband accessed via mobile handset with a cap of 500 MB, and mobile-broadband accessed via USB dongle with a cap of 1 GB - are discussed separately, highlighting the variation in prices within and between regions. Prices in this report are expressed in three complementary units: in United States dollars (USD); in international dollars (PPP\$), using purchasing power parity (PPP) conversion factors; and as a percentage of countries' monthly GNI per capita. Note: ICT Prices breakdown is usually found in the ITU Publication Measuring the Information Society, next edition expected December 2018

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Handbook for the collection of administrative data on telecommunications/ICT

2020

The ITU Handbook for the Collection of Administrative Data on Telecommunications/ICT is a key reference document for the collection of internationally comparable indicators on telecommunications/ICT based on administrative sources (i.e. supply-side data mainly from operators). The Handbook includes definitions and methodological clarifications for more than 90 internationally agreed indicators, discussed by the Expert Group on Telecommunication/ICT Indicators (EGTI).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E S A C R			





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## Yearbook of Statistics - Telecommunication/ICT Indicators - 2009-2018

2019

This is the 45th and final edition of the Yearbook of Statistics. The data included in the Yearbook was collected and processed by the Telecommunication Development Bureau (BDT) from replies received to ITU questionnaires sent to telecommunication ministries or regulators and national statistics offices. As such, the ITU Yearbook of Statistics provided the most authoritative source of data about the evolution of the telecommunication sector, the availability of ICTs in households and usage of ICTs by individuals. As per Council 2017, the pdf version is available free of charge to Member States from a protected link via secured Member States TIES access. For more information, please contact ITU Sales. As from 2020, the country-by-country pages formerly found in the Yearbook of Statistics will be found exclusively as part of the complete World Telecommunications/ICT Indicators Database, and no longer compiled separately. Yearbook of Statistics 2019 was the final edition in the series.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	134.-	E	43228	978-92-61-29781-7	378
	80.-	E			



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## Measuring the Information Society Report

2018



The 10th edition of the Measuring the Information Society Report, an annual report published by ITU since 2009, features key ICT data and benchmarking tools to measure the information society. The report presents a quantitative analysis of the information society and highlights new and emerging trends and measurement issues. The 2018 report presents the current state of ICTs using data collected by ITU from its Member States and also feature chapters on ICT skills for the future, revenue and investment in the telecommunication sector and ICT prices. The report once again includes in Volume 2 individual country profiles providing a snapshot of the latest ICT landscape and efforts made to increase ICT access and use. The analytical report is complemented by a series of statistical tables providing country-level data for the indicators included in the ITU ICT Price Basket. Exceptionally, the pdf formats of Volumes 1 and 2 are now available free of charge via the BDT statistical pages Link. Other versions can be purchased below, including the complete zipped set of Volume 1 and Volume 2. This 2018 edition is the final edition of the series.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	154.-	E	42351	978-92-61-27221-0	

## Measuring the Information Society Report

2017



The 9th edition of the Measuring the Information Society Report, an annual report published by ITU since 2009, features key ICT data and benchmarking tools to measure the information society, including the ICT Development Index (IDI). The report presents a quantitative analysis of the information society and highlights new and emerging trends and measurement issues. The MISR 2017 assesses IDI findings at the global and regional levels and highlights countries that rank at the top of the IDI, as well as those that have improved overall IDI rankings and values most dynamically since IDI 2016. It also uses the findings of the IDI to analyze trends and developments in the digital divide. For the first time the report includes individual country profiles, providing a snapshot of the latest ICT landscape and efforts made to increase ICT access and use. The analytical report is complemented by a series of statistical tables providing country-level data for the indicators included in the IDI. Exceptionally for this edition, the pdf format is available free of charge via the BDT statistical pages on this link. Other versions can be purchased below. For more information, please contact ITU Sales.

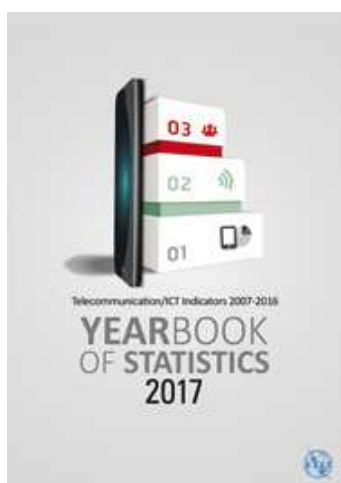
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	154.-	E	41351	978-92-61-24511-5	432
	92.-	E			

## Yearbook of Statistics - Telecommunication/ICT Indicators - 2007-2016

2017

This is the 43rd edition of the Yearbook of Statistics. The data included in the Yearbook have been collected and processed by the Telecommunication Development Bureau (BDT) from replies received to ITU questionnaires sent to telecommunication ministries or regulators and national statistics offices. As such, the ITU Yearbook of Statistics provides the most authoritative source of data about the evolution of the telecommunication sector, the availability of ICTs in households and usage of ICTs by individuals. As per Council 2017, the pdf version is available free of charge to Member States from a protected link via secured Member States TIES access. For more information, please contact ITU Sales.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	118.-	E	41985	978-92-61-26121-4	370
	71.-	E			





## Measuring the Information Society Report

2016

The Measuring the Information Society Report, which has been published annually since 2009, features key ICT data and benchmarking tools to measure the information society, including the ICT Development Index (IDI). The IDI 2016 captures the level of ICT developments in 175 economies worldwide and compares progress made since the year 2014. The MISR 2016 assesses IDI findings at the regional level and highlights countries that rank at the top of the IDI and those that have improved their position in the overall IDI rankings most dynamically since 2014. It also uses the findings of the IDI to analyze trends and developments in the digital divide. The report presents 2015 prices for about 160 countries and provide a detailed analysis of mobile-cellular, fixed-broadband and mobile-broadband prices over the period 2008-2015. It highlights the role of ICTs in achieving the Sustainable Development Goals and present the newly agreed SDG indicator framework, including the ICT indicators. The report also includes a chapter looking into new metrics to measure mobile uptake, and a chapter presenting data analyzing Internet use and uptake.

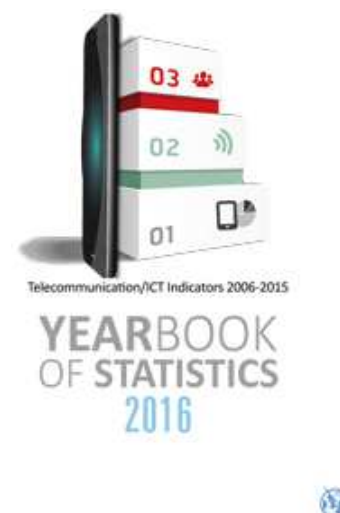




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	101.-	E	40634	978-92-61-21421-0	294
	60.-	E F S A C R			

## Yearbook of Statistics - Telecommunication/ICT Indicators - 2006-2015

2016

This is the 42nd edition of the Yearbook of Statistics. The data included in the Yearbook have been collected and processed by the Telecommunication Development Bureau (BDT) from replies received to ITU questionnaires sent to telecommunication ministries or regulators and national statistics offices. As such, the ITU Yearbook of Statistics provides the most authoritative source of data about the evolution of the telecommunication sector, the availability of ICTs in households and usage of ICTs by individuals. As per Council 2017, the pdf version is available free of charge to Member States from a special link via secured Member States TIES access. For more information, please contact ITU Sales.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	59.-	E	40874	978-92-61-22251-2	352
	35.-	E			

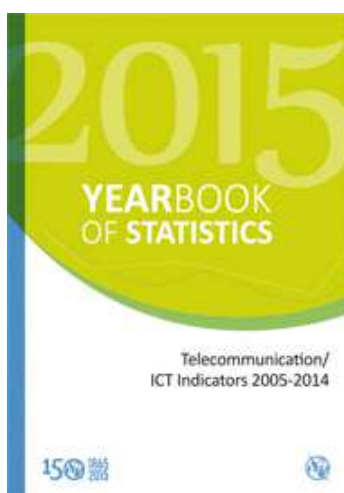


## Measuring the Information Society

2015

The Measuring the Information Society Report (MISR), which has been published annually since 2009, features key ICT data and benchmarking tools to measure the information society, including the ICT Development Index (IDI). The IDI 2015 captures the level of ICT developments in 167 economies worldwide and compares progress made since the year 2010. The MISR 2015 assesses IDI findings at the regional level and highlights countries that rank at the top of the IDI and those that have improved their position in the overall IDI rankings most dynamically since 2010. The report will feature a review and quantitative assessment of the global ITU goals and targets agreed upon at PP-14 and included in the Connect 2020 Agenda. In addition, the MISR will show the results of the ICT Price Basket (IPB) and present and analyse fixed- and mobile-broadband price data for around 180 economies. The report also includes a chapter looking into recent developments of the Internet of Things (IoT).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	98.-	E	39879	978-92-61-15791-3	276
	59.-	E			

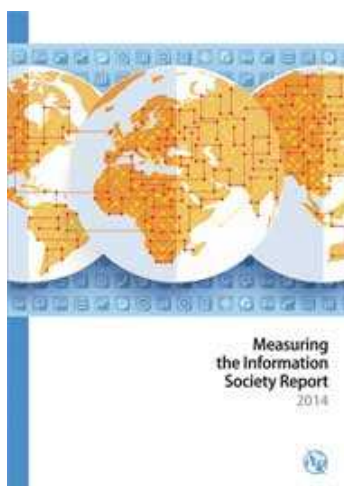


## Yearbook of Statistics - Telecommunication/ICT Indicators - 2005-2014

2015

This is the 41st edition of the Yearbook of Statistics. The data included in the Yearbook have been collected and processed by the Telecommunication Development Bureau (BDT) from replies received to ITU questionnaires sent to telecommunication ministries or regulators and national statistics offices. As such, the ITU Yearbook of Statistics provides the most authoritative source of data about the evolution of the telecommunication sector, the availability of ICTs in households and usage of ICTs by individuals.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	59.-	E	39968	978-92-61-16001-2	316
	35.-	E			



## Measuring the Information Society

2014



The MIS Report, which has been published annually since 2009, features key ICT data and benchmarking tools to measure the information society, including the ICT Development Index (IDI). The IDI captures the level of ICT developments in 166 economies worldwide and compares progress made during the last year. The MIS 2014 highlights the relationship between ICT development (as measured by the IDI) and the MDGs, a contribution to the ongoing discussions on the potential of ICTs as development enablers. The report includes the results of the ICT Price Basket (IPB) and new mobile-broadband price data for over 140 economies. Price data are analysed to provide insights into the relationship between affordability and income inequality, competition and regulation. The report also looks at new ICT data sources for measurement and examines the possible role of ICT big data for monitoring and development.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	86.-	E	39464	978-92-61-15291-8	284
	86.-	E			

## Measuring the Information Society

2013

The ITU Measuring the Information Society (MIS) Report, which has been published annually since 2009, features two benchmarking tools to measure the information society: the ICT Development Index (IDI) and the ICT Price Basket (IPB). The IDI captures the level of ICT developments in 157 economies worldwide and compares progress made during the last year. The IPB combines the consumer prices for (fixed and mobile) telephone and Internet broadband services for 161 economies into one measure and compares these across countries, and over time.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	83.-	E	38501	978-92-61-14401-2	266
	83.-	E			

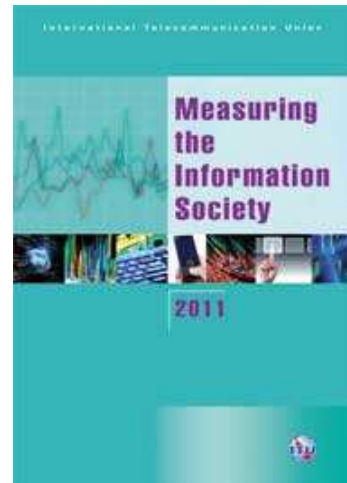


## Measuring the Information Society

2011

The 2011 edition of Measuring the Information Society features two benchmarking tools to measure the information society: the ICT Development Index (IDI) and the ICT Price Basket (IPB). The IDI captures the level of ICT developments in around 150 economies worldwide and compares progress made during the past two years. The IPB combines fixed telephone, mobile cellular and fixed broadband tariffs for around 160 economies into one measure and compares these across countries and over time. The Report also presents the latest global market trends, takes a closer look at fixed and mobile broadband developments and analyses the digital divide among Internet users. The analytical report is complemented by a series of statistical tables providing country-level data for the indicators included in the two indices. Order below the full report, which includes Annex 5's tariff data, not otherwise available.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	79.-	E	36736	92-61-13801-2	186
	79.-	E			





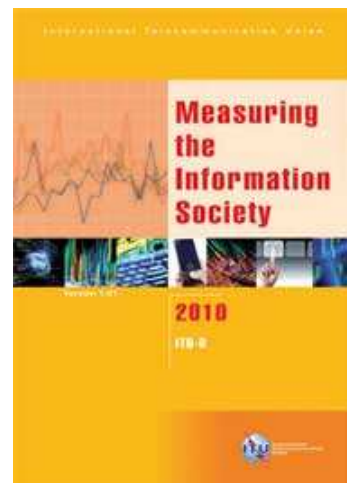
85

## Measuring the Information Society

2010

The 2010 edition of Measuring the Information Society features the latest ITU ICT Development Index (IDI), which captures the level of advancement of ICTs in more than 150 countries worldwide and compares progress made between 2002, 2007 and 2008. It also measures the global digital divide and examines how it has developed in recent years, and it discusses the impact of ICTs on socio-economic development. The report also features the ICT Price Basket, which combines fixed, mobile and broadband tariffs one measure and compares 2008 and 2009 data across countries. The analytical report is complemented by a series of statistical tables providing country-level data for the indicators included in the IDI and Price Basket. Please note that ITU also grants free online access to the electronic (Adobe® PDF) version of "Measuring the Information Society 2010" (excluding Annex 4).


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	55.-	E	35004	92-61-13111-5	134
	55.-	E			

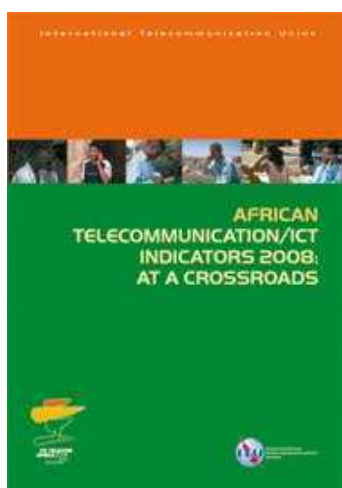




## Manual for Measuring ICT Access and Use by Households and Individuals

This Manual, an update of the 2009 and 2014 publications with the same title, has been prepared to support countries in the production of high quality and internationally comparable data on ICT access and use by households and individuals. The Manual focuses on the Partnership on Measuring ICT for Development's core list of indicators on access to, and use of, ICT by households and individuals. It can be used as basic reference material when preparing, designing and implementing ICT household surveys and also serves as the basis for ITU's training course on ICT household statistics.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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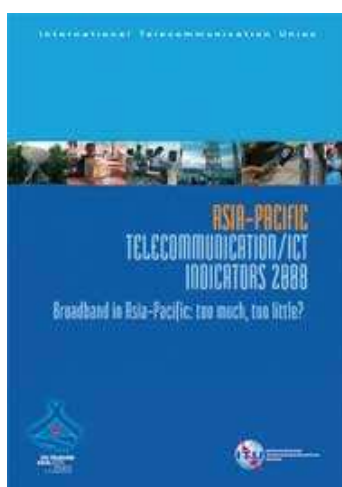


## African Telecommunication/ICT Indicators 2008: At a crossroads

2008

Prepared for Africa TELECOM 2008 (Cairo, Egypt, 12-15 May 2008), this report is an indispensable reference book of telecommunication facts and figures for the region. The publication provides an overview of market trends, including in the area of fixed, mobile and Internet services. It looks at the availability of ICTs in households and highlights the importance of community access to ICTs. It further looks at the role of different factors that will be crucial in connecting Africa, including regulation and taxes schemes in telecommunications/ICTs. The report includes some 20 regional tables covering key telecommunication/ICT indicators, 55 individual country pages with a five year profile from 2002-2006, and a directory with names of telecommunication ministries, regulators and operators in the region.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	56.-	E F A	32345 32344 32346	92-61-12411-9 92-61-12412-7 92-61-12416-X	150 154
	56.-	E F			



## Asia-Pacific Telecommunication/ICT Indicators 2008: Broadband in Asia-Pacific: too much, too little ?

2008



Prepared for ITU TELECOM ASIA 2008 (Bangkok, Thailand, 2-5 September 2008), this report is an indispensable reference book of telecommunication/ICT facts and figures for the region. The publication provides an overview of recent market trends, including in the area of fixed, mobile and Internet services. It focuses on broadband developments in the region, including in terms of policies, technologies, competition, access, pricing and applications. The report highlights government policies in the area of broadband that may serve as best practice examples but also looks at and analyzes the region's broadband digital divide and makes a number of conclusions and recommendations. The report includes some 20 regional tables covering key telecommunication/ICT indicators, over 40 individual country pages with a five year profile from 2002 to 2007, and a directory with names of telecommunication ministries, regulators and operators in the region.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	69.-	E	32954	92-61-12521-2	158
	69.-	E			

## Americas Telecommunication Indicators

2005

The 2005 edition of ITU's Americas Telecommunication Indicators has been prepared especially for ITU TELECOM AMERICAS 2005 (Salvador da Bahia, Brazil, 3-6 October 2005). The publication consists of three parts: an analytical overview, regional and country statistics and a directory of telecommunication organizations. An overview of the region's telecommunication sector is the subject of the analytical overview. The statistical section consists of regional indicator tables covering areas such as fixed telephone, mobile, Internet and broadcasting data. Data are for year-end 2003 or 2004, where available. The directory section consists of the names and websites of telecommunication ministries, regulators and facilities-based telephone and cellular operators active in the region.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	44.-	E	27672	92-61-11331-1	96
		S	27673	92-61-11333-8	96
	44.-	E			
		S			

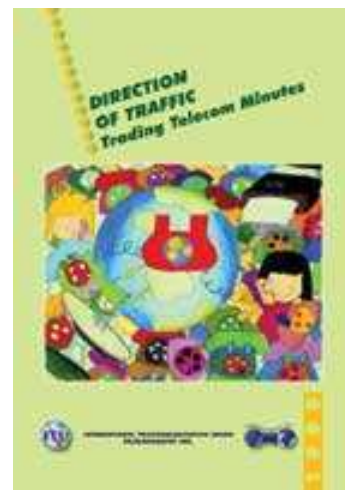


## Direction of Traffic: Trading Telecom Minutes

1999

The third edition of the authoritative ITU/TeleGeography Inc. 'Direction of Traffic' publication focuses on the transition in international telecommunication traffic away from the bilateral regime, based on accounting rates, to a new, multilateral, trade-based regime. Specifically, the report looks at the impact that the changing telecommunication environment will have on developing countries.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	300.-	E	15630	92-61-08041-3	330
	300.-	E			
	500.-	E	15631	92-61-08171-1	



## The Little Data Book on Information and Communication Technology

2016

The Little Data Book on Information and Communication Technology 2017 presents tables for over 217 economies around the world. It provides comparable data for 2005 and 2015 on key ICT 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.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			





## Policy Brief - The affordability of ICT services 2021 2022

Prices for fixed and mobile broadband have risen around the world amid the COVID-19 pandemic, according to the Policy Brief ? The affordability of ICT services 2021, produced jointly by ITU and the Alliance for Affordable Internet (A4AI). The affordability target set by the United Nations Broadband Commission for Sustainable Development ? to bring the cost of entry-level broadband services below 2 per cent of monthly gross national income per capita by 2025 ? remains elusive.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



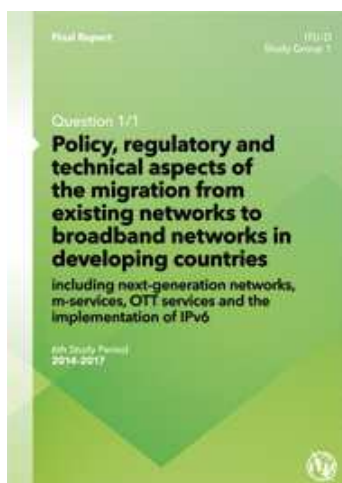
## Policy Brief - The affordability of ICT services 2022 2023

This edition reveals that - taken overall - using the Internet became more affordable globally in 2022.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

## 4.3 Study Groups

ITU-D study groups develop reports, guidelines and recommendations, based on study Questions approved by world telecommunication development conferences. Information is gathered through surveys, contributions and case studies. ITU-D study group publications are available, free of charge, on the ITU website.



## Question 1/1: Policy, regulatory and technical aspects of the migration from existing networks to broadband networks in developing countries, including next-generation networks, m-services, OTT services and the implementation of IPv6 2017

This report examines policy, regulatory, operational, and technical issues associated with the transition from narrowband to broadband networks. The report covers country experiences and best practice guidelines to promote affordable broadband networks, services, and applications, including those that stimulate demand for broadband such as e-education, e-health, m-banking, m-commerce, mobile money transfer, and over-the-top services (OTT).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			

### Question 3/1 - Emerging technologies, including cloud computing, m-services and OTTs: Challenges and opportunities, economic and policy impact for developing countries

2021

The world has entered an era of accelerated technology innovation, driven by massive research and development investments and exponential progress in many technologies, especially digital. With this comes a set of challenges for regulators and policy-makers, who want to understand the profound value and impact of these technologies and create an enabling environment that promotes adoption and spurs innovation while protecting the public interest- this ITU-D study group final report results from four years of collaborative work of ITU membership on Question 3/1: Emerging technologies, including cloud computing, m-services and OTTs: Challenges and opportunities, economic and policy impact for developing countries approved at WTDC-17. Insightful guidelines are brought forward based on country case studies and lessons learnt from industry and academia work.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			



### Question 4/1: Economic policies and methods of determining the costs of services related to national telecommunication/ICT networks including next-generation networks

2017

This report takes stock of different cost models and new methods of charging telecommunication/ICT services in a Next Generation Network (NGN) environment. While services have become more affordable, prices could come down further given the cost reductions associated with provision of these services in an NGN environment. What are the factors preventing this from happening now? The report shares some guidelines on how to promote infrastructure sharing, how to encourage price/tariff reduction to consumers through competition and how access to and use of telecommunication/ICT services can be further stimulated.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	C			



89

### Question 5/1: Telecommunications/ICTs for rural and remote areas

2017

This report discusses the implementation of cost-effective and sustainable telecommunication/ICT infrastructure in rural and remote areas. The report highlights various challenges that constitute the development of telecommunications/ICTs in rural and remote areas, especially in the context of developing countries, and provides examples of dedicated policies, initiatives and government subsidies that are implemented in countries around the world.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	C			






## Question 6/1 - Consumer information, protection and rights: Laws, regulation, economic bases, consumer networks

2021

Drastic changes in the telecommunication/ICT sector as a result of digitalization and technological improvements have resulted in the necessity to review traditional consumer rights regulations based on basic ICT services and suppliers. The digital transformation that is under way in economies and societies has provided consumers with a wealth of commercial opportunities, while also bringing a number of new and emerging risks - this ITU-D study group final report results from four years of collaborative work of ITU membership on Question 6/1: Consumer information, protection and rights: Laws, regulation, economic bases, consumer networks approved at WTDC-17. Insightful guidelines are brought forward based on country case studies and lessons learnt from industry and academia work.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			

NO IMAGE  
AVAILABLE

## Question 6/1: Consumer information, protection and rights: Laws, regulation, economic bases, consumer networks

2017

Considering the importance of consumer information, protection and rights, this report provides readers with some useful guidelines both for market players and for policy makers and regulators.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	C			

NO IMAGE  
AVAILABLE

## Question 7/1: Access to telecommunication/ICT services by persons with disabilities and with specific needs

2017

Many countries have already started fostering ICT accessibility in their countries by creating ICT accessibility policy frameworks on public ICT access, mobile communications, TV/video programming, public procurement of accessible ICT and accessible government websites. This report presents good practices, outlines challenges, and proposes recommendations and guidelines based on country experiences.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	C			

NO IMAGE  
AVAILABLE

## Question 8/1: Examination of strategies and methods of migration from analogue to digital terrestrial broadcasting and implementation of new services

2017

This report discusses best practices for the transition from analogue to digital television and shares communication strategies to accelerate the process of public awareness about digital broadcasting, spectrum issues related to the Analogue Switch-Off (ASO), and the use of the released spectrum (Digital Dividend) to implement new services and applications.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	C			

## Study Group 2

### Question 1/2: Creating the smart society: Social and economic development through ICT applications

2017


This report looks closer at how information and communication technology (ICT) can be utilized to create a fully inclusive Smart Society. It provides case studies of the Smart Society in the field of health, learning, energy, agriculture, resource management - water and waste, commerce, and smart transport networks and road safety.

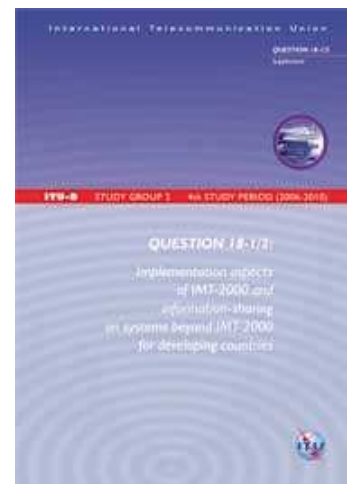
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E A			



### Question 18-1/2 – Implementation aspects of IMT 2000 and information-sharing on systems beyond IMT 2000 for developing countries


2010

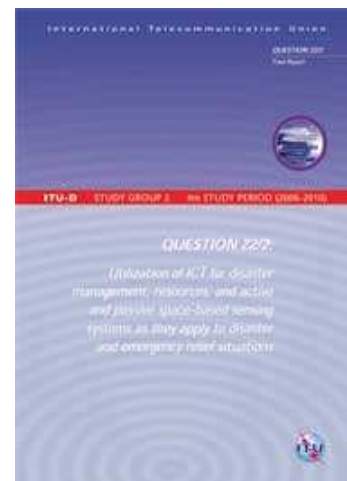
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			



### Question 22/2 – Utilization of ICT for disaster management, resources, and active and passive space-based sensing systems as they apply to disaster and emergency relief situations

2010 - Final Report


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			






Question 22/2 – Utilization of ICT for disaster management, resources, and active and passive space-based sensing systems as they apply to disaster and emergency relief situations – Guidelines on the Common Alerting Protocol (CAP)

2010

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			



Question 2/2: Telecommunications/ICTs for e health

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			



Question 3/2: Securing information and communication networks: Best practices for developing a culture of cybersecurity

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E S A C R			



Question 4/2: Assistance to developing countries for implementing conformance and interoperability programmes and combating counterfeit information and communication technology equipment and theft of mobile devices

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			

Question 5/2: Utilizing telecommunications/information and communication technologies for disaster risk reduction and management

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E A			




## Study Group 2

### ITU-D Reports on Questions and Recommendations - Study Groups 1 and 2

2002 - (SG1 / SG2)

The ITU-D Study Groups were set up in accordance with Resolutions 2 of World Telecommunication Development Conference (WTDC) held in Buenos Aires, Argentina, in 1994). For the period 1998-2002, Study Group 1 is entrusted with the study of eleven Questions in the field of telecommunication development strategies and policies. Study Group 2 is entrusted with the study of seven Questions in the field of development and management of telecommunication services and networks. For this period, in order to respond as quickly as possible to the concerns of developing countries, instead of being approved during the WTDC, the output of each Question is published as and when it is ready.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	589.-	E F S	19174 19175 19176		




93

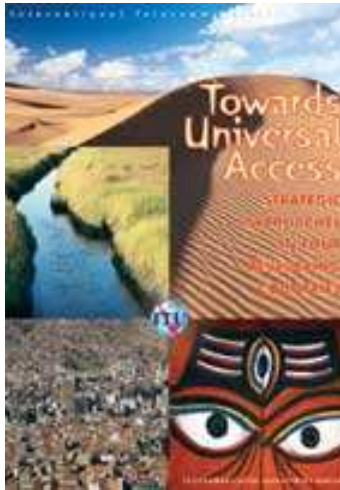
### ITU-D Reports on Questions and Recommendations - Study Groups 1 and 2

1998 - (SG1 / SG2)

The ITU-D Study Groups were set up in accordance with Resolution 2 of WTDC-94 (Buenos Aires, March 1994). For the period 1994-1998, Study Group 1 was entrusted with the study of five Questions in the field of telecommunication development strategies and policies, and Study Group 2 was entrusted with the study of eight Questions on more technical matters. The actual work began in 1995 and resulted in a series of twelve Recommendations, which were approved at WTDC-98 (Valletta, March 1998). Complete collection.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	710.-	E F S	13140 13139 13141		





## Towards Universal Access: Strategic Approaches in Four Developing Countries

2002

This publication reports the results of the project "Advancement of National Policies for Universal Access". This project was undertaken in the framework of the Memorandum of Understanding between CIDA and ITU. Bolivia, Burkina Faso, Malawi and Nepal participated in the project.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	28.-	E	21327	92-61-09891-6	44
		F	21328	92-61-09892-4	44
		S	21329	92-61-09893-2	44
		R	23160	92-61-09894-0	42
	28.-	E			
		F			
		S			
		R			



## Final report of ITU-D Focus Group 7: New Technologies for Rural Applications

2001



More than 2.5 billion people (over 40% of the planet's population) live in rural and remote areas of developing countries. Of the small fraction that has any access to telecommunications, voice telephony has been the main service provided. But today, interactive multimedia services, such as e-mail, tele-education and telemedicine, are just as important as voice connectivity. This report looks at technological developments that have the potential to support interactive multimedia services in rural and remote areas.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	64.-	E	18697	92-61-09091-5	112
		F	18698	92-61-09092-3	112
		S	18699	92-61-09093-1	112
		A	23649	92-61-09096-6	114
		R	21465	92-61-09094-X	107
	64.-	E			
		F			
		S			
		A			
		R			
	64.-	E, F, S	18726	92-61-09117-2	

## Spectrum Management System for Developing Countries (SMS4DC)

2022

The Spectrum Management System for Developing Countries (SMS4DC) provides various functionalities for spectrum management activities. Version 5.2 of the software was developed from the contribution of MSIT (Republic of Korea). It contains the revised Article 5 of the Radio Regulations (as per decisions made at WRC-19), as well as further development on data transfer from other databases to the SMS4DC, such as BRSpace IFIC Version 9, and calculations according to the HCM (European cross-border frequency coordination agreement). The SMS4DC also contains monitoring network planning for optimization of spectrum monitoring networks, an interface to the spectrum monitoring software of Rohde & Schwarz and of Thales and a general interface for any other monitoring software (TCI's for example). Self-learning training material can be provided upon request. The newly updated SMS4DC Edition 5.2 on USB key is now available for purchase. Free online access opportunities will be granted on an exceptional basis to current subscribers of edition 5.1. Please contact ITU Sales to either request a Quotation for the USB key for your Administration's multi-user environment, or regarding your exceptional access to 5.2 as a current subscriber.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			
	5100.-	E, F, S	44837	978-92-61-36121-1	



## Spectrum Management System for Developing Countries (SMS4DC)

2017

The Spectrum Management System for Developing Countries (SMS4DC) provides various functionalities for spectrum management activities. Version 5.1 of the software was developed from the contribution of MSIP (Republic of Korea). It contains the revised Article 5 of the Radio Regulations (as per decisions made at WRC-15), as well as further development on data transfer from other databases to the SMS4DC and calculations according to the HCM (European cross-border frequency coordination agreement). The SMS4DC also contains an interface to the spectrum monitoring software of Rohde & Schwarz and of Thales and a general interface for any other monitoring software (TCI's for example). Self-learning training material can be provided upon request.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	5100.-	E, F, S	41565	978-92-61-25441-4	



## Spectrum Management System for Developing Countries (SMS4DC)

2015

Version 5.0 of the software contains a general data interface between monitoring software and SMS4DC, additional and revised propagation models based on the latest version of P.452, P.530, P. 1812 and P.1546 + 11343. There is further development of built-in and user specified administrative reports and a general method to import data to SMS4DC. The SMS4DC software is also available in Spanish. Self-learning training material can be provided upon request.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	5100.-	E, F, S	40044	978-92-61-16151-4	




## 4.4 Conference Publications



### World Telecommunication Development Conference 2022 (WTDC-22): Final Report

2022

The World Telecommunication Development Conference 2022 Report is a blueprint for connecting the unconnected to achieve sustainable development. It features the Kigali Declaration, Kigali Action Plan, 28 regional initiatives - for Africa, the Americas, the Arab States, Asia and the Pacific, the Commonwealth of Independent States (CIS) and Europe - 40 revised resolutions and four new ones, and 14 ITU-D study Questions; all of which are designed to foster meaningful universal connectivity and sustainable digital transformation around the world in the period 2022-2025.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			
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### World Telecommunication Development Conference (WTDC-17): Final Report

2017




The World Telecommunication Development Conference (WTDC-17) Final Report contains the contribution to the ITU Strategic Plan for the Telecommunication Development Sector, focusing on programmes, regional initiatives, and the resolutions approved by the Conference directed towards the purposes and objectives of the ITU Telecommunication Development Sector for the four-year period 2019-2022.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	141.-	E	41727	978-92-61-25591-6	835
		F	41728	978-92-61-25592-3	835
		S	41729	978-92-61-25593-0	835
		A	41730	978-92-61-25596-1	835
		C	41731	978-92-61-25595-4	835
		R	41732	978-92-61-25594-7	835
	Free	E			
		F			
		S			
		A			
		C			
		R			

## World Telecommunication Development Conference (WTDC-14): Final Report

2014

The sixth World Telecommunication Development Conference (WTDC-14) took place in Dubai from 30 March to 14 April 2014. The Final Report contains the Dubai Declaration, the Conference's contribution to the ITU Strategic Plan for the Telecommunication Development Sector, the Dubai Action Plan (DuAP) focusing on the programmes and regional initiatives, and the resolutions approved by the Conference directed towards the purposes and objectives of the ITU Telecommunication Development Sector for the four-year period 2015-2018.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	139.-	E	38988	978-92-61-14591-0	750
		F	38989	978-92-61-14592-7	750
		S	38990	978-92-61-14593-4	750
		A	38991	978-92-61-14596-5	750
		C	38992	978-92-61-14595-8	750
		R	38993	978-92-61-14594-1	750
	Free	E			
		F			
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		A			
		C			
		R			
	139.-	E, F, S, A, C, R	38994	978-92-61-14607-8	



## World Telecommunication Development Conference (WTDC-10): Final Report

Hyderabad, 2010

The fifth World Telecommunication Development Conference (WTDC-10) took place in Hyderabad (India) from 24 May to 4 June 2010. The Final Report contains the Hyderabad Declaration, the Conference's contribution to the ITU Strategic Plan for the Telecommunication Development Sector, the Hyderabad Action Plan (HAP) focusing on the programmes and regional initiatives, and the resolutions approved by the Conference directed towards the purposes and objectives of the ITU Telecommunication Development Sector for the four-year period 2011-2014.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	119.-	E	35951	92-61-13281-2	332
		F	35952	92-61-13282-0	332
		S	35953	92-61-13283-9	332
		A	35955	92-61-13286-3	332
		C	35956	92-61-13285-5	332
		R	35954	92-61-13284-7	332
	Free	E			
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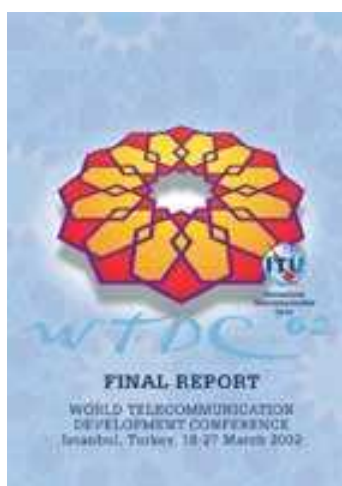


## World Telecommunication Development Conference (WTDC-06): Final Report

Doha, 2006

The fourth World Telecommunication Development Conference (WTDC-06) took place in Doha (Qatar) from 7 to 15 March 2006. The Final Report contains the Doha Declaration, the Conference's contribution to the ITU Strategic Plan for the Telecommunication Development Sector, the Doha Action Plan (DAP) focusing on the programmes, activities, regional initiatives, the resolutions approved and the recommendations made by the Conference directed towards the purposes and objectives of the ITU Telecommunication Development Sector for the four-year period 2007-2010.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	76.-	E	29590	92-61-11621-3	280
		F	29594	92-61-11622-1	280
		S	29595	92-61-11623-X	280
		A	29596	92-61-11626-4	280
		C	29598	92-61-11625-6	280
		R	29597	92-61-11624-8	280
	Free	E			
		F			
		S			
		A			
		C			
		R			
	76.-	E, F, S, A, C, R	29600	92-61-11637-X	



## World Telecommunication Development Conference (WTDC-02): Final Report

Istanbul, 2002

The third World Telecommunication Development Conference (WTDC-02) took place in Istanbul (Turkey) from 18 to 27 March 2002. The Final Report contains the Istanbul Declaration, the Strategic Plan of the Telecommunications Development Sector, the Istanbul Action Plan (ISAP) focusing on the programmes, activities, special initiatives, resolutions approved and recommendations made by the conference directed towards the purposes and objectives of the ITU Telecommunications Development Sector for the four-year period 2003-2006, and the detailed programme of the conference as well as miscellaneous appendices containing the speeches, the abbreviations and acronyms, the list of documents submitted to the conference and the list of participants.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	50.-	E	21975	92-61-10091-0	206
		F	21976	92-61-10092-9	228
		S	21977	92-61-10093-7	226
		A	21978	92-61-10096-1	208
		C	21979	92-61-10095-3	210
		R	21980	92-61-10094-5	208
	Free	E			
		F			
		S			
		A			
		C			
		R			
	50.-	E, F, S, A, C, R	21981	92-61-10127-5	

## 4.5 Least Developed Countries

### Connectivity in the Least Developed Countries: Status report 2021

2021

This report assesses the level of digital connectivity in the 46 UN-designated Least Developed Countries (LDCs). It provides practical solutions to improve digital access, as well as concrete policy recommendations to help accelerate progress towards universal and meaningful connectivity. In an effort to advance digital accessibility, the report identifies ways to boost Internet connectivity and usage in LDCs by raising awareness of the benefits of being online, improving digital skills for everyone, expanding connectivity to rural communities, making connectivity and hardware more affordable and emphasizing the importance of working together so that everyone can truly benefit from today's life-changing technologies.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



### Small Island Developing States (SIDS) and ICT: Mid-term review of the Samoa pathway

2019

This document reviews progress in access to affordable and modern digital technologies since the 2014 Samoa conference on SIDS. It was prepared as an input document to the September 2019 high-level meeting to review progress made in addressing the priorities of SIDS through implementation of the SIDS Accelerated Modalities of Action (SAMOA) Pathway. It provides examples to demonstrate progress made, showing how SIDS are using ICTs to help drive sustainable development, and includes a framework for tracking progress towards a universal and affordable Internet.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



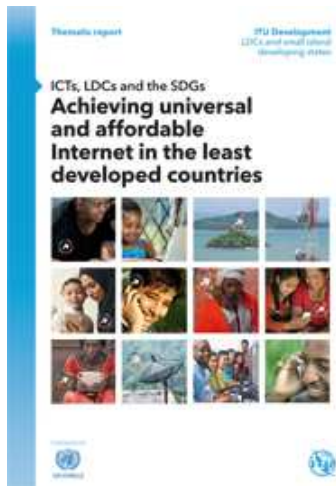
### Economic impact of broadband in LDCs, LLDCs and SIDS - An empirical study

2019

This empirical study examines the economic impact of fixed and mobile broadband in the least developed countries (LDCs), landlocked developing countries (LLDCs) and small island developing states (SIDS).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

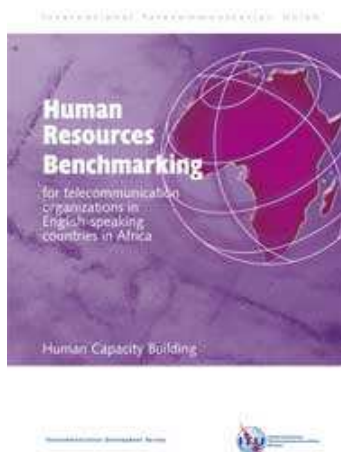




## ICTs, LDCs and the SDGs - Achieving universal and affordable Internet in the least developed countries

2018

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Human Resources Benchmarking for telecommunication organizations in English-speaking countries in Africa

September 2008

ITU, in its continued support of developing capacity building in the African Continent, sponsored the Human Resources Benchmarking study for telecommunications organizations in English-speaking Countries in Africa. The findings of this study are expressed in this report.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

100

## 4.6 Handbooks



## Connecting every school in Indonesia to the Internet: Policy landscape assessment

2023

This report considers the high-level policies relating to school connectivity initiatives in Indonesia. The assessment explores the gaps in ICT sector supply and education sector demand, it examines approaches to consolidate funding opportunities to secure Internet access in schools in areas overlooked by current policies and it recommends policy interventions to address these gaps.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

NEW

## Connecting every school in Indonesia: A bespoke implementation framework

2023

This framework sets out the requirements for school connectivity, such as the policy and regulatory environment, infrastructure, sustainable financing, data and mapping, as well as the multiplier components that help optimize the utilization of school connectivity, such as digital literacy and digital skills.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



NEW

## ITU Guidelines for national emergency telecommunication plans

2020

The Guidelines for National Emergency Telecommunications Plan are a critical tool to assist policy makers and national regulatory authorities to develop a clear, flexible and user-friendly national emergency telecommunications plan with a multi-stakeholder approach, including national policies and procedures as well as governance framework to support and enable the continued use of reliable and resilient ICT networks, services and platforms for disaster management. The guidelines can also be used for developing tailored contingency plans for a specific emergency caused by natural hazards, epidemics or pandemics.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	S A R			



## Women, ICT and emergency telecommunications: opportunities and constraints

2020

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	F S A C			





## ITU Guidelines for national emergency telecommunication plans

These guidelines assist national authorities and policymakers to develop a clear, flexible and user-friendly framework that guide countries on how to develop a strategic plan to support and enable the continued use of telecommunication and information and communication technology (ICT) networks and services in all four disaster management phases. It includes a step-by-step guide to the development of an NETP, it serves as a useful resource based on ITU recommendations and concepts, as well as expertise from other global bodies and organizations.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Guide to develop a TELECOM/ICT contingency plan for a pandemic response

2020

This document outlines a set of actions that countries can take to prepare for, anticipate and be ready to promptly respond and ensure network continuity and service delivery for future health related emergencies. It focuses on telecommunications/ICT service delivery and business continuity in the specific context of a pandemic such as Covid-19.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Emergency telecommunications table-top simulation guide

2020

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

## Compendium of ITU'S Work on Emergency Telecommunications

2007

ITU improved the availability and accessibility of its documents related to Emergency Telecommunications. The most recent work by ITU's three Sectors (Radiocommunication, Standardization and Telecommunication Development) can be viewed on our Emergency Telecommunications pages. Disasters strike with increased frequency and magnitude, resulting in unprecedented loss of human life, economic disruption and damage. This legacy publication is superseded by the above website but presents the work done by ITU up to 2007 in the field of emergency telecommunications. For up-to-date information see the Emergency Telecommunications website.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			

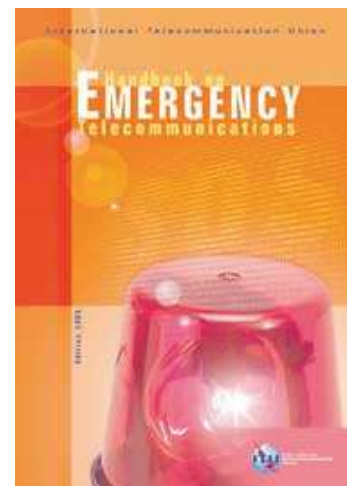


## Emergency Telecommunications

2005

This Handbook on Emergency Telecommunications is written to serve as a close companion to those involved in the noble work of providing as well as using telecommunications for disaster mitigation and relief. It simplifies and demystifies the complex technical issues that characterize the fast evolving field of telecommunications, especially in this era of convergence and emergence of next-generation networks. While designed to be simple, the Handbook is comprehensive, compact and contains useful factual information that is concise and organized for easy access, in particular by practitioners.


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	98.-	E F S A C R	26422 26423 26424 28214 28197 28215	92-61-11091-6 92-61-11092-4 92-61-11093-2 92-61-11096-7 92-61-11095-9 92-61-11094-0	182 198 204 190 184
	Free	E F S C			
	98.-	E, F, S	28424	92-61-11537-3	

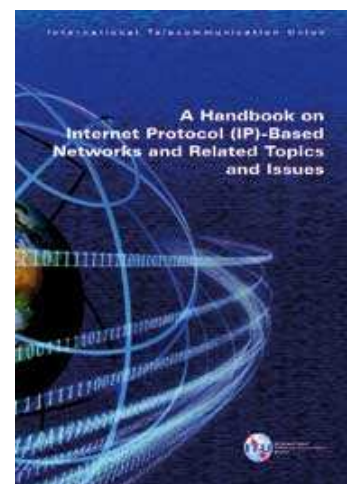


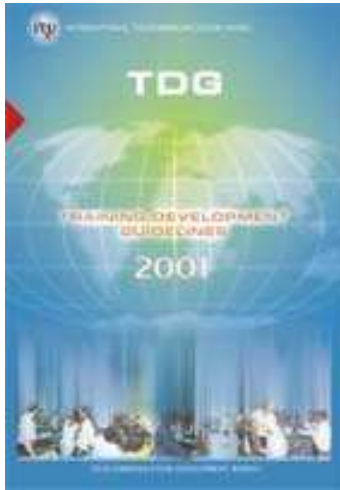
## A Handbook on Internet Protocol (IP)-Based Networks and Related Topics and Issues

2005

The use of Internet Protocol (IP)-based technologies is now a strategic element in the design, development and use of telecommunication networks. Consequently, there is a growing interest in the policy and regulatory issues related to the growth of IP-based networks, such as the Internet, and their convergence with other networks. The ITU project team worked diligently to provide a factual, unbiased account of how IP-based networks, including the Internet, work today, as well as some of the key policy issues associated with the proliferation of these networks and services.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			



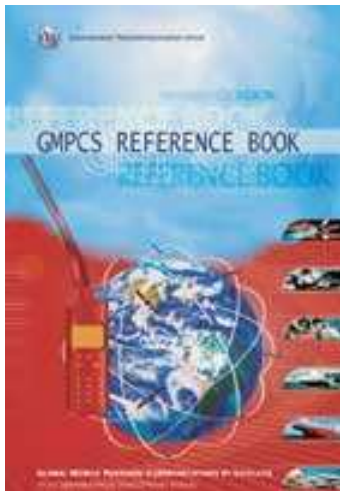


## Training Development Guidelines

2001

This publication is intended primarily as a guide for course developers and adaptors in their efforts to carry out, monitor and follow up a training development project in a systematic manner. The approach used in the TDG is based on a ?systems approach model? which considers each organization as a system.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	90.-	E	18438	92-61-08711-6	390
		F	18439	92-61-08712-4	418
		S	18440	92-61-08713-2	404
	90.-	E			
		F			
		S			



## GMPCS Reference book

1999

This first edition of the ?GMPCS Reference Book? provides information on all aspects of GMPCS services, including reference materials, covering regulatory, technical, operational and commercial implications. Its specifically logical presentation aids the reader in discovering all there is to know about this new breakthrough which could be extremely beneficial to developing countries aiming at Universal Access.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	48.-	E	16857	92-61-08311-0	388
		F	16858	92-61-08312-9	388
		S	16859	92-61-08313-7	388
	48.-	E			
		F			
		S			

## 4.7 E-Strategies

**Sustainable Development Model (SSDM) Initiative.** The advice of the Working Groups support the work of ITU by sharing recommendations within the framework of the SSDM Initiative.

This report provides concrete proposals and hands-on tools for those engaging in deploying rapid response emergency telecommunication for disaster relief, in terms of resource mobilization, training of volunteers and need regulatory measures and guidelines for the development and the smooth trans-border movement of telecommunications equipment in time of emergencies.

### Global and complementary actions for electronics extended producer responsibility

2022

As part of a collaboration for International E-waste Day 2022 the International Telecommunication Union, the WEEE Forum and StEP have prepared a thought paper presenting complementary solutions and concepts to propel e-waste collection rates in line with EPR-based regulation, whilst also delving into the perceived need for an international regime around EPR to assist with harmonization efforts. New and complementary solutions and concepts are urgently needed to turn the tide on the side of e-waste collection and to move towards a circular economy. Complementary actions can be wide in scope, from commercially or not-for-profit driven to solution-based actions, including deposit-return or refund schemes, public-private-partnerships, as well as the all-actors-approach and the best-of-two worlds philosophy. Complementary actions can operate across national borders, but these would benefit greatly from an international regime, with the objective of overseeing a global approach to tackling e-waste and of ensuring the harmonization of national EPR approaches.



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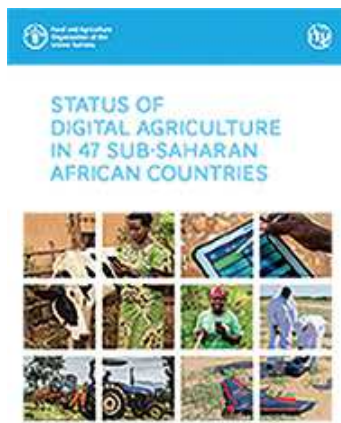
### Greening digital companies: Monitoring emissions and climate commitments

2022

The report by the International Telecommunication Union and the World Benchmarking Alliance documents the emissions and energy use of 150 of the world's leading digital companies. Operational GHG emissions accounted for 239 million tonnes in 2020, equivalent to 0.76 per cent of the world total. The companies consumed 425 TWh of electricity in 2020, accounting for 1.6 per cent of global electricity production. Beyond assessing corporate climate data and targets, the report highlights best practices for digital companies to reduce their emissions and achieve carbon-neutral operations.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Status of digital agriculture in 47 sub-Saharan Africa countries

2022

The study provides a useful snapshot of the status of digital agriculture in sub-Saharan Africa against six focal themes essential to understanding digital agriculture, namely: infrastructure, digital penetration, policy and regulation, business environment, human capital and agro-innovation. Each country profile aims at capturing the digital agriculture status of the respective 47 countries in sub-Saharan Africa.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Operational framework and guidelines for the planning and execution of ITU regional cyberdrills

2021

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## ITU cybersecurity programme: CIRT framework

2021

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

106



## Global Cybersecurity Index

2021

The Global Cybersecurity Index (GCI) is a multi-stakeholder initiative to raise cybersecurity awareness and to measure the commitment of countries to cybersecurity and its wide field of application cutting across industries and sectors. An exclusive, new html format view of this publication can be found here. Corrigendum The 2020 edition of the index has been reviewed and reposted. Country scores and the underlying methodology remain unchanged, but some country profiles have been updated as per the Editorial Note below. Please contact the ITU Cybersecurity team directly at [gci@itu.int](mailto:gci@itu.int) with any comments or inquiries in respect to this publication.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Global Cybersecurity Index

2018

The Global Cybersecurity Index (GCI) is a multi-stakeholder initiative to raise cybersecurity awareness and to measure the commitment of countries to cybersecurity and its wide field of application cutting across industries and sectors. Each country's level of development is analyzed within five categories: Legal Measures, Technical Measures, Organizational Measures, Capacity Building and Cooperation.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Be He@lthy, Be Mobile - Mobile technologies for oral health: an implementation guide

2021

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Digital transformation and the role of enterprise architecture

2019

Digital Transformation is becoming increasingly a focus of strategic thinking and planning of many public and private organizations. It is about putting the emphasis on how digital services and applications will change and ?transform? citizen?s experience and the way we do business in a way that will lead to improvement in quality of life and wellbeing and the attainment of Sustainable Development Goals (SDG). This publication provides an introduction on how digital services and applications are to be shaped and delivered to induce this transformation for government public services and other sectoral areas and the central role of enterprise architecture to reach this.

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## Guide to developing a national cybersecurity strategy - Strategic engagement in cybersecurity

2018

Facilitated by ITU, twelve partners from the public and private sectors, academia and civil society share their experience, knowledge and expertise, providing an aggregated, harmonised set of principles on the development, establishment and implementation of national cybersecurity strategies. The guide's objective is to instigate strategic thinking and help national leaders and policy-makers to develop, establish and implement national cybersecurity strategies world-wide.

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### Be He@lthy Be Mobile - Personas Toolkit

2019

The Personas Toolkit provides guidance on how to use "personas" to design content and delivery mechanisms for mHealth programmes for NCD by keeping users at the core of the design process. Beneficiaries are the true experts, and our role as innovators is to facilitate the creation, adoption and scaling-up of mobile health services.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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### Digital Identity Roadmap Guide

2018

The Digital Identity Roadmap Guide is a comprehensive set of guidelines for identifying the main aspects that need to be addressed during the design, development and implementation of a National Digital Identity Framework. It is the result of a deeply collaborative multi-stakeholder effort aimed at strengthening the knowledge and expertise of professionals and policy makers working in the field digital identity and, more generally, the digitization of government services. Descriptions of the overarching principles that lay the foundations for designing, developing and implementing a National Digital Identity Framework are included in this guide, which also outlines four critical Focus Areas, lists the main critical success factors and the conflicting principles national leaders and policy makers should be aware of in making certain design decisions, and illustrates a step-by-step approach that could be adopted in managing the National Digital Identity Framework throughout its entire lifecycle. The guide is complemented by a comprehensive set of case studies from countries which have successfully set up National Digital Identity Systems using a range of different approaches, and provides a brief survey of the main technical standards available to date.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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### e-Agriculture in action: Drones in agriculture

2018

FAO and ITU, together with partners, have been working together in addressing some of the challenges faced in agriculture through the use of sustainable ICTs. One of the latest developments is the increase in the use of small, unmanned aerial vehicles (UAVs), commonly known as drones, for agriculture. Drones have a huge potential in agriculture in supporting evidence-based planning and in spatial data collection. Despite some inherent limitations, these tools and technologies can provide valuable data that can then be used to influence policies and decisions.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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**Be He@lthy, Be Mobile – A handbook on how to implement M-Ageing**  
2018



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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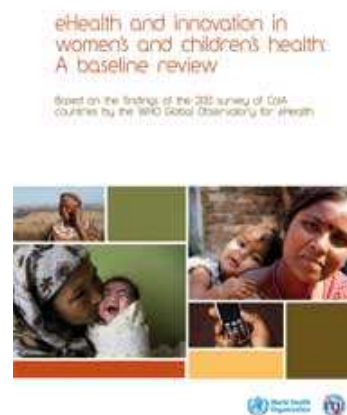


**eHealth and innovation in women's and children's health: A baseline review**

2014

Improving the health of women and children is a global health imperative, reflected in two of the most compelling Millennium Development Goals which seek specifically to reduce maternal and infant deaths by 2015. This joint report by the World Health Organization (WHO) and the International Telecommunication Union (ITU), based on a 64-country survey, demonstrates - as never before in such detail - the vital role that information and communication technologies (ICTs) and particularly eHealth are playing today in helping achieve those targets. It demonstrates how, every day, eHealth is saving the lives of women, their babies and infants in some of the most vulnerable populations around the world, in a wide variety of innovative ways.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	40.-	E	39112	978-92-61-14671-9	164
	Free	E			



**National eHealth Strategy Toolkit**

2012

Worldwide, the application of information and communication technologies to support national health-care services is rapidly expanding and increasingly important. This is especially so at a time when all health systems face stringent economic challenges and greater demands to provide more and better care, especially to those most in need. The National eHealth Strategy Toolkit is an expert, practical guide that provides governments, their ministries and stakeholders with a solid foundation and method for the development and implementation of a national eHealth vision, action plan and monitoring framework. All countries, whatever their level of development, can adapt the Toolkit to suit their own circumstances. Representing one of the most significant collaborations in recent years between the World Health Organization and the International Telecommunication Union, the Toolkit is a landmark in understanding what eHealth is, what it can do, and why and how it should be applied to health care today.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	100.-	E	37408	978-92-61-14051-9	223
	Free	E F A C			







## M-Government – Mobile Technologies for Responsive Governments and Connected Societies

2011

This report aims to foster a better understanding of how to leverage the economic and social impacts of the use of mobile technologies and applications to enable ubiquitous governments, sustain public sector innovation and transform public service delivery. The report is a joint-product of the collaboration between the International Telecommunication Union (ITU), the Organisation for Economic Co-operation and Development (OECD) and the United Nations Department of Economic and Social Affairs (UNDESA).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	43.-	E	36819	92-61-13881-0	154
	Free	E			



## Be he@lthy, be mobile: A toolkit on how to implement MyopiaEd, Web Annex, MyopiaEd message libraries

2022

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Be he@lthy, be mobile: A toolkit on how to implement mSafeListening, Web Annex, mSafeListening message libraries

2022

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Be he@lthy, be mobile: a toolkit on how to implement MyopiaEd

2022

Be He@lthy, Be Mobile? (BHBM) is a global initiative led by the World Health Organization (WHO) and the International Telecommunications Union (ITU). It is based on the use of mobile technology for digital targeted client communication messaging to address a range of noncommunicable diseases and health

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Digital tools and strategies in COVID-19 infodemic response: Case studies and discussion

2021

This report brings to light some of the important aspects of dealing with health misinformation in the digital age. Digital communication channels and online platforms can serve as a highly cost-effective means of delivery and promotion for public health guidance; but they can also act as a breeding ground for rumours, conspiracy theories and misbeliefs about a novel health threat. It should therefore be the objective of policy-makers and infodemic managers to leverage Information and communication technology (ICT) in a way that empowers people so that they can access reliable and useful content, while identifying and avoiding misinformation and disinformation. The report looks at experiences of selected countries in leveraging ICTs in COVID-19 'infodemic' response, discusses available solutions, and identifies some of the key enablers for effective digital policy implementation.

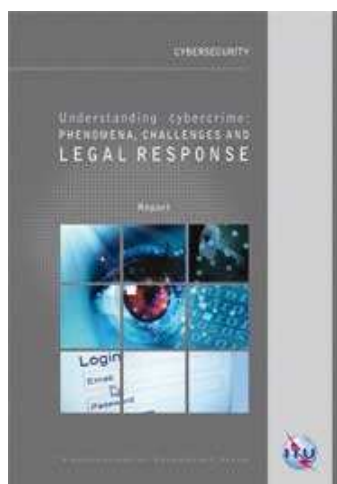




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## Understanding cybercrime: Phenomena, challenges and legal response

2014

Cyberattacks are on the rise. The media constantly report about data breaches and increasingly sophisticated cybercrime. Even governments are affected. At the same time, it is obvious that technology alone cannot solve the problem. What can countries do? Which issues can be addressed by policies and legislation? How to draft a good law? The report assists countries in understanding what cybercrime is about, what the challenges are in fighting such crime and supports them in drafting policies and laws.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	248.-	E	39677	978-92-61-15641-1	380
		F	39678	978-92-61-15642-8	398
		S	39679	978-92-61-15643-5	394
		A	39680	978-92-61-15646-6	414
		C	39681	978-92-61-15645-9	372
		R	39682	978-92-61-15644-2	394
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## Be He@lthy, Be Mobile – A handbook on how to implement mSafeListening

2022

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## Status of national Child Online Protection ecosystems in South Eastern Europe

2020

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## M-Powering Development Initiative – Report 2018

2018

Mobile communications and technology are transforming the lives of millions, and increasingly represent an immense opportunity to transform the lives of billions more who today remain excluded from such an opportunity. This report documents the achievements of the three Working Groups of the m-Powering Development Initiative. In response to both the challenges and the opportunities from ICT contributions to political, social, economic and environmental development, the advice of the Working Groups support the work of ITU by sharing recommendations within the framework of the m-Powering Development Initiative.

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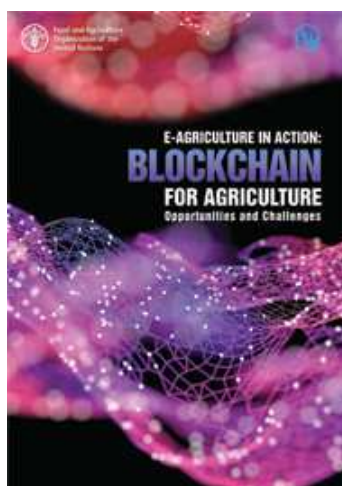


## SDG Digital Investment Framework - A whole-of-Government Approach to Investing in Digital Technologies to Achieve the SDGs

2019

This paper sets out an SDG Digital Investment Framework which is intended to be the start of a new dialogue with the digital investment community, building on the global Call to Action 1 presented at the UN General Assembly in 2018. It encourages a whole-of-government approach and sets out to help governments address key strategic investment questions and choose effective, scalable technology-based solutions - and in particular help them to consider using ICT Building Blocks for economies of scale and maximum return on investment.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## E-Agriculture in action: Blockchain for agriculture - Opportunities and Challenges

2018

This publication aims to demystify the technology, provide some thoughts on the opportunities and challenges in implementing blockchain-based systems as well as document some case studies on the use of blockchain for agriculture.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Digital agriculture in action - Artificial intelligence for agriculture

2021

This publication on artificial intelligence (AI) for agriculture is the fifth in the E-agriculture in Action series, launched in 2016 and jointly produced by FAO and ITU. It aims to raise awareness about existing AI applications in agriculture and to inspire stakeholders to develop and replicate the new ones. Improvement of capacity and tools for capturing and processing data and substantial advances in the field of machine learning open new horizons for data-driven solutions that can support decision-making, facilitate supervision and monitoring, improve the timeliness and effectiveness of safety measures (e.g. use of pesticides), and support automation of many resource-consuming tasks in agriculture. It presents the reader with a collection of informative applications highlighting various ways AI is used in agriculture and offering valuable insights on the implementation process, success factors, and lessons learnt.

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## Be He@lthy, Be Mobile – A handbook on how to implement mDiabetes

2016

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## Estudio sobre TIC y salud pública en América Latina: la perspectiva de e-salud y m-salud

2018

ITU is convinced of the usefulness of TIC to improve the quality of life around the world. In this study in the Americas, an analysis framework is applied to assess and present ehealth and mhealth experiences in Latin America that can enlight public policy development to learn from and apply them in other similar contexts.

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## 4.8 Publications on ICT Regulation, Economics and Finance



### *Trends in Telecommunication Reform Series*



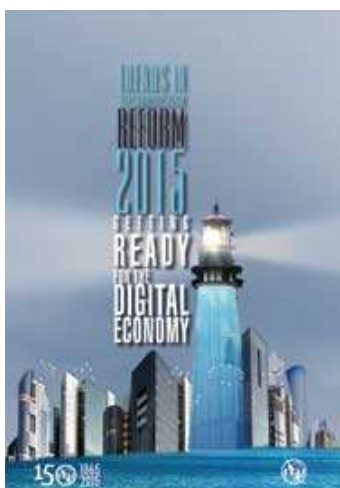
#### Trends in Telecommunication Reform 2016: Regulatory Incentives to Achieve Digital Opportunities

2016

The annual Trends in Telecommunication Reform publications are a key part of the dialogue with the world's information and communications technology (ICT) policy-makers and regulators in an increasingly converged digital environment. Under the overarching theme "Regulatory incentives to achieve digital opportunities", the 16th edition of Trends explores topical issues regulators need to address to ensure that citizens can benefit from the social and economic opportunities brought about by the digital economy. For digital opportunities to fully materialize, an adaptive, consultative and innovative approach to ICT policy and regulation is more than ever necessary. The thematic chapters, drawing up from discussion papers presented at the 2015 ITU Global Symposium for Regulators, examine investment strategies to foster the deployment of broadband and access to the digital economy, network sharing and co-investment regulation, regulation and the Internet of Things (IoT), interoperability in the digital ecosystem and smart regulation to facilitate m-services and applications uptake and diffusion. As of end-2020, all soft copy versions of this title are now freely available for download, with hard-copies 50% off. Additionally, for a Flipbook view of the complete publication, you are welcome to click [here](#). No version 2017 is expected. Please see instead a new related ITU Publication (and potentially a new series) entitled Global ICT Outlook 2017.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	93.-	E	40296	978-92-61-16551-2	176
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114



#### Trends in Telecommunication Reform 2015: Getting ready for the digital economy

2015


Under the overarching theme "Getting ready for the digital economy", the 15th edition of Trends in Telecommunication Reform discusses changing ICT consumer behaviour, consumer empowerment and protection in the digital age. It further explores the opportunities and challenges of big data and what it means from a regulatory perspective; why competition matters. It also attempts to answer whether it is time to rethink spectrum licensing, how to monitor the implementation of broadband plans and what are the new business models driven by digital communications and services. As in previous editions, the publication will feature an in-depth analysis of current market and regulatory trends based on ITU data from one of the world's most comprehensive data platforms, the ICT Eye. See Table of Contents and preview (English only) at: [http://www.itu.int/en/publications/Documents/Trends2015-short-version\\_pass-e374681df](http://www.itu.int/en/publications/Documents/Trends2015-short-version_pass-e374681df)

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	93.-	E	39622	978-92-61-15521-6	244
		F	39623	978-92-61-15522-3	278
		S	39624	978-92-61-15523-0	278
		A	39625	978-92-61-15526-1	282
		C	39626	978-92-61-15525-4	244
		R	39627	978-92-61-15524-7	264
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## Trends in Telecommunication Reform Special Edition - Fourth-generation regulation: Driving digital communications ahead

2014

The annual Trends in Telecommunication Reform publications are a key part of the dialogue with the world's information and communications technology (ICT) policy-makers and regulators fostering economic and market growth while ensuring that all citizens safely benefit from the digital opportunities brought by the digital economy. This edition is exceptionally free of charge.




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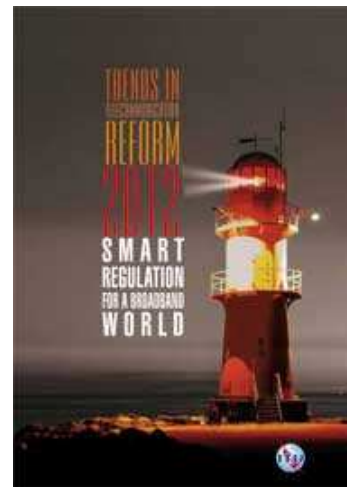


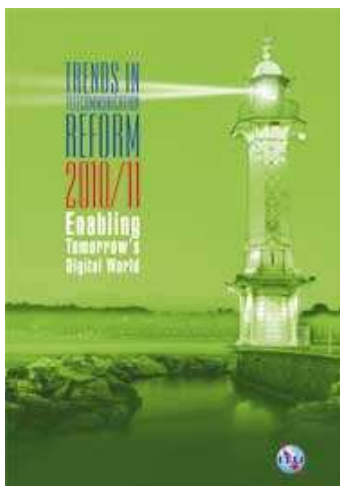
## Trends in Telecommunication Reform 2012: Smart Regulation for a Broadband World

2012

The annual Trends in Telecommunication Reform publications are a key part of the dialogue with the world's information and communications technology (ICT) policy-makers and regulators to ensure that all citizens can benefit from new applications, services and businesses opportunities brought by a broadband world.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	176.-	E	36834	978-92-61-13931-5	304
		F	36836	978-92-61-13932-2	340
		S	36837	978-92-61-13933-9	338
		A	36839	978-92-61-13936-0	306
		C	36840	978-92-61-13935-3	300
		R	36838	978-92-61-13934-6	308
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	176.-	E, F, S, A, C, R	36841	978-92-61-13957-5	





## Trends in Telecommunication Reform 2010-2011: Enabling Tomorrow's Digital World

2010/2011

The annual "Trends in Telecommunication Reform" publications are key part of ITU's effort to explore and amplify the wisdom of policy-makers and regulators in the ICT sector. The 11th edition will examine the challenges for regulators to stimulate nationwide broadband deployments through adaptive and targeted regulations and out-of-the-box tools, leading to a new ladder of regulation. With this regard, it is very important for regulators to understand the impact of broadband on and beyond the ICT sector as well as the driving forces of today's and tomorrow's ICT markets, notably the migration from analogue to digital terrestrial broadcasting and the allocation of the digital dividend. For markets to truly thrive, regulators need to prove successful in keeping up with the pace of convergence and integration of ubiquitous networks, in particular through adapting their institutional structure and mandate, adopting cutting-edge best practices and embracing new tools such as innovative dispute resolution techniques. The individual chapters will focus on salient issues such as the changing role of regulators in a digital world and their involvement in non-traditional areas of regulatory intervention, such as ICT climate change and cyberthreats. Last but not least, the Information Society is changing every aspect of our lives, whether in developing or developed countries and it is crucial to leverage the benefits it brings while mitigating the associated threats. What does it all mean for ICT users, but also for regulators and policy makers?

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	117.-	E	36060	92-61-13341-X	400
		F	36061	92-61-13342-8	440
		S	36062	92-61-13343-6	450
		A	36064	92-61-13346-0	464
		C	36065	92-61-13345-2	396
		R	36063	92-61-13344-4	404
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	117.-	E, F, S, A, C, R	36067	92-61-13367-3	

116



## Trends in Telecommunication Reform 2009: Hands-on or hands-off? Stimulating growth through effective ICT regulation

2009




The annual Trends in Telecommunication Reform publications are a key part of ITU's effort to explore and amplify the wisdom of policy-makers and regulators in the ICT sector. The 10th edition will look at the delicate balance that regulators need to strike in order to operate between the hands-on and the hands-off approach to regulation. This balance is required to meet the expectations of key ICT stakeholders and is critical to stimulating growth in a converged environment. The blurring of boundaries between the once separate telecoms, Internet, broadcasting and media worlds is bringing new players to the arena, driving new opportunities and challenges. At the same time, regulatory authorities more than ever have a key role to play in fostering a safe and healthy ICT sector while meeting social goals, especially in a time of economic and financial uncertainty.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	110.-	E	34482	92-61-12961-7	246
		F	34483	92-61-12962-5	280
		S	34487	92-61-12963-3	280
		A	34489	92-61-12966-8	298
		C	34490	92-61-12965-X	242
		R	34488	92-61-12964-1	278
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	110.-	E	34491	92-61-12971-4	
		E, F, S, A, C, R	34492	92-61-12987-0	

## Trends in Telecommunication Reform 2008: Six Degrees of Sharing

### 2008

Many developing countries are preparing for a second wave of regulatory reform designed to enable them to harness the promise of new technologies and participate fully in the information society. This report examines a range of innovative sharing strategies regulators can use to speed up the uptake of ICTs and promote widespread, affordable broadband access. This year's Trends focuses on "Six Degrees of Sharing", examining active and passive infrastructure sharing, open access to international capacity, business sharing, end-user sharing and regulatory sharing.





MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	106.-	E	33377	92-61-12641-3	260
		F	33378	92-61-12642-1	296
		S	33379	92-61-12643-X	292
		A	33381	92-61-12646-4	290
		C	33382	92-61-12645-6	260
		R	33380	92-61-12644-8	308
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	106.-	E, F, S, A, C, R	33383	92-61-12667-7	

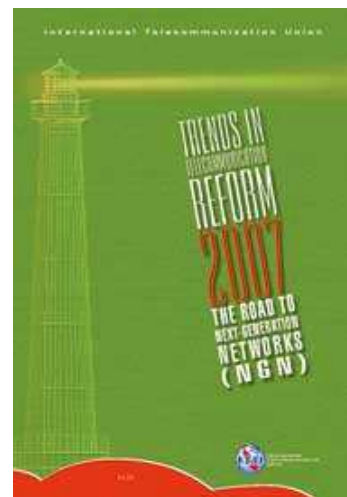


## Trends in Telecommunication Reform 2007: The Road to Next-Generation Networks (NGN)

### 2007

The 8th edition of Trends in Telecommunication Reform will examine the regulatory challenges and opportunities of Next-Generation Networks (NGN). This report is designed to provide regulators and policy makers with an understanding of the emerging NGN world, with a special focus on developing countries. It will examine NGN technologies and their regulatory implications, fixed mobile convergence (FMC), universal access, interconnection both domestic and international, consumer protection and an NGN enabling environment.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	100.-	E	30135	92-61-11971-9	238
		F	30136	92-61-11972-7	264
		S	30137	92-61-11973-5	254
		A	30139	92-61-11976-X	276
		C	30140	92-61-11975-1	240
		R	30138	92-61-11974-3	238
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## Trends in Telecommunication Reform 2006: Regulating in the broadband world

2006

The 7th edition of Trends in Telecommunication Reform examines the regulatory challenges and opportunities of enabling ICT development. The report provides regulators with tools they can use to promote effective and innovative development and use of ICTs in a competitive environment. This report provides an overview of developments in the ICT sector, specifically focusing on broadband, its advent, the technologies, the role of the regulator in broadband development, broadband spectrum management, voice over IP (VoIP) regulation, international efforts to combat spam (including a model law and enforceable code of conduct), and identifies best practices. The report is structured into eight chapters.




MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	95.-	E	28388	92-61-11431-8	240
		F	28389	92-61-11432-6	240
		S	28390	92-61-11433-4	240
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## Trends in Telecommunication Reform 2004: Licensing in an Era of Convergence

2004-2005




The sixth edition of Trends in Telecommunication Reform examines the various licensing options in the ICT sector to provide regulators with tools they can use to promote effective competition in a converging environment. The report provides an overview of licensing practices around the world and the rationale for licensing; identifies new trends such as unified licences; provides options; raises transition issues to be considered in moving from one regime to another; evaluates traditional licensing models; addresses scarce resources such as spectrum; and identifies best practices. The report is structured into eight chapters.

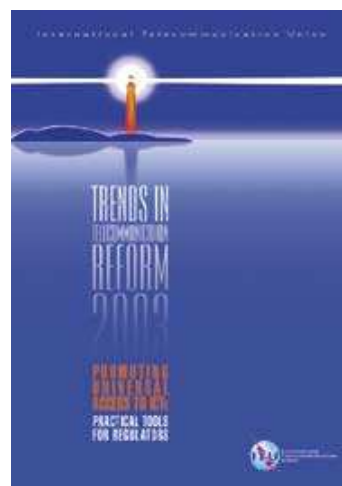
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	95.-	E	26063	92-61-10921-7	262
		F	26065	92-61-10922-5	294
		S	26066	92-61-10923-3	292
	Free	E			
		F			
		S			
	95.-	E, F, S	26067	92-61-10937-3	

## Trends in Telecommunication Reform 2003: Promoting Universal Access to ICTs - Practical tools for regulators

2003

The fifth edition of Trends in Telecommunication Reform explores the tools regulators can use to promote universal access/service. The report provides an overview of universal access/service, the role of sector reform, creation and operation of a universal service fund, the role of minimum subsidy auction, how consumer tariffs and interconnection rates affect the viability of rural universal access/service projects, public access strategies including telecentres, and how regulators can foster entrepreneurial solutions to rural access. The report is structured into eight chapters.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	90.-	E	23365	92-61-10381-2	264
		F	23366	92-61-10382-0	288
		S	23367	90-61-10383-9	282
		R	25523	92-61-10384-7	260
	Free	E			
		F			
		S			
		R			
	90.-	E, F, S	24497	92-61-10587-4	



## Trends in Telecommunication Reform 2002: Effective Regulation

2002

The fourth edition of Trends in Telecommunication Reform is dedicated to the theme of effective and independent regulation. Since the beginning of the 1990s, the number of regulatory institutions has increased from 13 to more than 110, with many of them having been created in the past five years. But merely creating a regulatory body without empowering it to be effective is not enough. The report looks at the need for regulators; the process of creating a regulator; definitions of independence; why effectiveness may be more important than independence; powers and functions of the regulator; transparency in the decision-making process; organizational structure and finance issues. It is structured into nine chapters.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	90.-	E	21116	92-61-09641-7	296
		F	21117	92-61-09642-5	328
		S	21118	92-61-09643-3	318
		R	22443	92-61-09644-1	294
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## Trends in Telecommunication Reform 2000-2001: Interconnection Regulation

2001

The third edition of Trends in Telecommunication Reform includes one chapter reviewing global trends in market reform, and seven chapters exploring the key regulatory issue of interconnection. The seven interconnection chapters cover the importance of interconnection, regulatory and technical issues, economic issues in interconnection, network unbundling, interconnection with mobile networks, Internet interconnection and international interconnection.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	90.-	E	18313	92-61-08651-9	256
		F	18314	92-61-08652-7	286
		S	18315	92-61-08653-5	280
		A	21109	92-61-08656-X	238
		C		92-61-08655-1	237
		R	22812	92-61-08654-3	238
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### Trends in Telecommunication Reform: Country Profiles

2000

This CD-ROM provides key regulatory information for each ITU Member State (up to 2000). The information is accessible by country and by region. This interactive tool contains information on the institutional framework, regulatory and policy-making bodies and regulatory issues such as ownership, liberalization, licensing, universal service, and interconnection.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	225.-	E, F, S	16200	92-61-08147-9	



### Trends in Telecommunication Reform "Convergence and Regulation"

1999

The second edition of Trends in Telecommunication Reform focuses on the regulation of multimedia services. The report examines eight themes: Institutional Framework, Ownership, Liberalization, Licensing, Universal access, Interconnection, Priceregulation and Numbering. Each chapter addresses overall reforms on that subject and looks, in particular, at Internet and other convergence-related issues. English: Out of print (pdf available).

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	75.-	F	15868	92-61-08142-8	262
		S	15869	92-61-08143-6	262
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		R	15869	92-61-08144-4	262
	Free	E			
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### General Trends in Telecommunication Reform "Europe": Volume VI

Volume VI

The report provides a regulatory snapshot by country of the 53 Member States of the European region. The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, institutional profile, regulatory issues, ownership, market status and future regulatory plans.



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	72.-	E	13061	92-61-06831-6	216
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		C	24547	92-61-06835-9	216
	72.-	E			
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### General Trends in Telecommunication Reform "Asia Pacific": Volume V

Volume V



The report provides a regulatory snapshot by country of the 38 Member States of the Asia Pacific region. The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, institutional profile, regulatory issues, ownership, market status and future regulatory plans.

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	60.-	E	13058	92-61-06821-9	158
		F	13059	92-61-06822-7	158
		S	13060	92-61-06823-5	158
		C	13060	92-61-06823-5	158
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## General Trends in Telecommunication Reform "Arab States": Volume IV

### Volume IV

The report provides a regulatory snapshot by country of the 21 Member States of the Arab region. The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, institutional profile, regulatory issues, ownership, market status and future regulatory plans. English: Out of print



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	45.-	E	13055	92-61-06811-1	94
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## General Trends in Telecommunication Reform "Americas": Volume III

### Volume III

The report provides a regulatory snapshot by country of the 34 Member States of the Americas region. The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, institutional profile, regulatory issues, ownership, market status and future regulatory plans.

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	55.-	E	13052	92-61-06801-4	146
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## General Trends in Telecommunication Reform "Africa": Volume II

### Volume II

The report provides a regulatory snapshot by country of the 42 Member States of the African region. The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, institutional profile, regulatory issues, ownership, market status and future regulatory plans.

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## General Trends in Telecommunication Reform "World": Volume I

Volume I

The report provides an overview of the telecommunication regulatory reforms and trends worldwide. Specific regulatory issues are analyzed and compared by region. This report comprises six chapters. The first chapter is dedicated to a general worldwide overview of regulatory trends. Chapters 2-6 address each region (Africa, Americas, Arab States, Asia-Pacific and Europe). All six chapters are focused on new legislation, the rise of regulatory agencies, ownership reforms, competition trends, regulatory matters and regional and international cooperation.

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		C	17625	92-61-06785-9	262
	75.-	E			
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## Collection of General Trends in Telecommunication Reform

1998 - All volumes

These volumes, which are published separately, are organized by region and contain key regulatory information for each ITU Member State in Africa (Vol. II), the Americas (Vol. III), the Arab States (Vol. IV), Asia-Pacific (Vol. V), and Europe (Vol. VI). The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, regulatory issues, ownership of the incumbent operator, the degree of liberalization in various market segments, and future regulatory plans. Special discount of 20% for the entire package: Volumes I-VI or Volumes II-VI (paper format only). Article: E: 13064 Vol. I - VI Price: 372 CHF Article: E: 13067 Vol. II - VI Price: 297 CHF

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		S	13066		924
	297.-	E	13067		786
		F	13065		786
		S	13069		786

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## Publications on Economics & Finance

### Economic and fiscal incentives to accelerate digital transformation - 9th ITU Economic Experts Roundtable: Outcome report

2022

The role of governments in implementing economic and fiscal incentives to accelerate the digital transformation of economies was the main theme of the ninth ITU Economic Experts Roundtable. This year's discussions underline the importance of innovative economic and fiscal incentives and instruments that can stimulate the deployment of digital infrastructure, especially in rural and isolated areas, as well as the introduction of advanced technologies.

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	Free	E			



## Digital competition policy and regulation in the Africa and Arab States regions

2021

The COVID-19 pandemic has highlighted the need for robust and resilient ICT networks to be at the forefront of social and economic development. There is an urgent need to address a range of associated ICT policy and regulatory issues, especially those related to competition policy, which have in some cases existed for decades. In countries in the Africa and Arab States regions, the pandemic has made legislators and regulators concerned about the availability and affordability of ICT services and securing investment for underlying digital infrastructures. It has also raised questions on the role of digital platforms in serving the ICT ecosystem and the most appropriate regulatory approaches to respond to constantly evolving technology. This publication reviews the major competition policy and regulatory challenges that affect the development of a vibrant digital apps environment enabled by digital platforms. It addresses fundamental questions on how regulatory practices need to change in the context of evolving technologies, and on the rise of digital platforms and their socioeconomic impact on the countries in these regions.

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## The Economic impact of broadband and digitization through the COVID-19 pandemic: Econometric modelling

2021

Building on ITU's global and regional economic research, which was based on datasets ending in 2018 and was published in 2020, the following study relies on the same structure and econometric models, but in this case examines the impact of fixed and mobile broadband penetration and digitization levels on the global economy through to the end of 2020, in an effort to measure the contribution of digital to social and economic resilience. The expert analyses presented in this new report are based on solid empirical evidence, providing an invaluable global picture of the role digital technology is playing in mitigating the social and economic disruption caused by the COVID-19 pandemic.

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## The impact of policies, regulation, and institutions on ICT sector performance

2021

This study shows that ICT regulation has had a measurable impact on the growth of global ICT markets over the past decade. The analysis uses econometric modelling to pinpoint the impact of the regulatory and institutional frameworks on the performance of the ICT sector and its contribution to national economies. The modelling has allowed to capture fresh insights backed by authoritative data on the evolution of ICT regulation since 2007, the ICT Regulatory Tracker, and a global dataset on ICT market economics. The new analysis points to regulatory features that can have a multiplier effect on ICT markets and consumer benefits. For the mobile sector, open and collaborative regulatory policies appear to have a strong positive impact on investment. In turn, more investment triggers coverage gains and lower consumer prices, boosts ICT adoption and generates growth in national economies around two years after policy adoption. Policy-makers are encouraged to use this study as an evidence base underpinned by a deeper understanding of the linkages between regulatory and institutional contexts and ICT market outcomes, and of which policies can lead markets, consumers, and economies out of the current crisis.

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## How broadband, digitization and ICT regulation impact the global economy

2020

In 2020 the COVID-19 pandemic has underlined the central importance of ICT to national, regional and global economies. As decision-makers consider where to place investment spend on ICT and the digital ecosystem in the years ahead - and on infrastructure programmes more generally - this report offers important and practical guidance both for developing and developed countries. The report is based on recent high-quality data and global in scope, and offers four clear high-level recommendations. In addition, the report sets out six powerful and concrete steps which will maximize the economic impact of strategic ICT investment decisions, as well as concrete recommendations designed to boost economic impact. As economies worldwide look at ways to reinvent and re-charge themselves, this short powerful report is a must-read for governments, policy-makers, regulators, operators and influencers.

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## Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for the ITU Commonwealth of Independent States region

2020

This study focuses on the impact of broadband, digital transformation and policy and regulatory frameworks on the growth of markets for digital services in the CIS region. It provides evidence of the importance of regulatory and institutional variables in driving digital growth and further illustrates how broadband technologies combined with effective ICT regulation can positively impact the growth of national economies and prosperity. The results from this study could assist countries in conceptualizing the process of launching evidence-based digital transformation strategies.

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## The economic contribution of broadband, digitization and ICT regulation: Econometric modelling for the ITU Europe region

2020

This study focuses on the impact of broadband, digital transformation and policy and regulatory frameworks on the growth of markets for digital services in the Europe region. It provides evidence of the importance of regulatory and institutional variables in driving digital growth and further illustrates how broadband technologies combined with effective ICT regulation can positively impact the growth of national economies and prosperity. The outcomes of this regional study may serve as key reference material to illustrate the impact of fixed and mobile broadband on the economy, where the regions stand in terms of digitization and the impact of digitization on GDP. The results from this study could assist European countries in conceptualizing the process of launching evidence-based digital transformation strategies.

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## Economic impact of COVID-19 on digital infrastructure

2020

As we look ahead towards global recovery, it will be important for governments, digital policy makers and regulators, and the tech sector to ensure that further actions are based on solid evidence. In this ITU report, leading digital economy experts have put their collective heads together in an attempt to get a clearer look at the economic impact of COVID-19 on the world's digital infrastructure - not just a rear-view mirror look, but a far-sighted view from the driver's seat, too.

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## Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for Africa

2019

ITU published the findings of a global study on the economic contribution of broadband, digitization and ICT regulation in September 2018. Following this report, The Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for Africa presents a set of econometric analyses that estimate the contribution of broadband and digital transformation on the economy, as well as the impact of ICT policy and regulations on the development of the digital economy in the Africa region. In addition, it provides substantial evidence on the impact of institutional and regulatory variables on the growth of the digital ecosystem. The outcomes of this regional report may serve as key reference material to illustrate the impact of fixed and mobile broadband on the economy, where the regions stand in terms of digitization and the impact of digitization on GDP. This could assist countries in conceptualizing the process of launching evidence-based digital transformation strategies.

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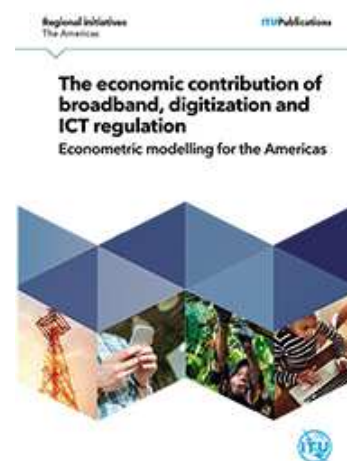


## Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for the Americas

2019

This study focuses on the impact of broadband, digital transformation and policy and regulatory frameworks on the growth of markets for digital services in the Americas region. It provides evidence of the importance of regulatory and institutional variables in driving digital growth and further illustrates how broadband technologies combined with effective ICT regulation can positively impact the growth of national economies and prosperity.

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## Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for Asia-Pacific

2019

ITU published the findings of a global study on the economic contribution of broadband, digitization and ICT regulation in September 2018. Following this report, The Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for Asia and Pacific presents a set of econometric analyses that estimate the contribution of broadband and digital transformation on the economy, as well as the impact of ICT policy and regulations on the development of the digital economy in the Asia and Pacific region. The outcomes of this regional report may serve as key reference material to illustrate the impact of fixed and mobile broadband on the economy, where the regions stand in terms of digitization and the impact of digitization on GDP. This could assist countries in conceptualizing the process of launching evidence-based digital transformation strategies. It also provides evidence of the importance of regulatory and institutional variables in driving digital growth and further illustrates how broadband technologies combined with effective ICT regulation can positively impact the growth of national economies and prosperity.

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## Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for Arab States

2019

This study focuses on the impact of broadband, digital transformation and policy and regulatory frameworks on the growth of markets for digital services in the Arab States region. It provides evidence of the importance of regulatory and institutional variables in driving digital growth and further illustrates how broadband technologies combined with effective ICT regulation can positively impact the growth of national economies and prosperity. The outcomes of this regional study may serve as key reference material to illustrate the impact of fixed and mobile broadband on the economy, where the regions stand in terms of digitization and the impact of digitization on GDP. The results from this study could assist countries in conceptualizing the process of launching evidence-based digital transformation strategies.

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## ICT infrastructure business planning toolkit

2019

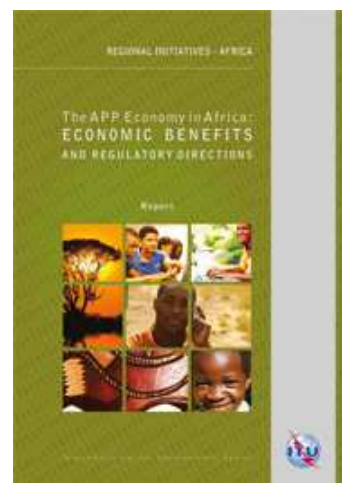
The ICT infrastructure business planning toolkit offers regulators, policymakers, and stakeholders a practical methodology for the accurate economic evaluation of proposed broadband infrastructure installation and deployment plans. The expert guidance offered by the toolkit will greatly facilitate the development of a credible and coherent business plan that is adaptable to a wide range of broadband infrastructure deployment projects.

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## The APP economy in Africa: economic benefits and regulatory directions

This report provides an overview of the development of the App Economy in Africa, as well as an assessment of the current state of regulation with emphasis on instances of successful collaborative regulation. It focus on the actual and potential economic benefits and policy and regulatory settings of the App Economy. Country cases for Ghana and South Africa are included. Recommendations to policy makers and regulators are provided concerning tools for collaborative regulation that enhance consumer choice, promote affordable pricing and maintain a level playing field for all players. This publication is also available at the ITU Digital Ecosystem Portal

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## Guide on Data Collection for the application of the COSITU model

2007

This data collection guide is a follow-up to the COSITU user manual. It provides a methodology to help telecommunication regulators and operators to efficiently calculate costs, taxes related to trade in international traffic, interconnection rates between local operators, and tariffs for national and international telephone services, both fixed and mobile, on the basis of a rigorous cost model.

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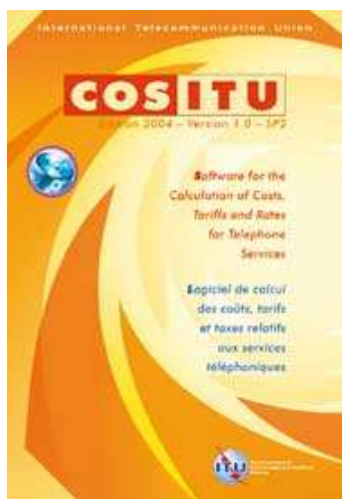
## Trends in Economics and Finance Volume II: Use of Economic Modelling in Telecommunications

2006

In the telecommunication industry, economic modelling techniques such as regression analysis, simulations and linear programming are powerful tools that can aid decision making for governments, regulatory authorities and telecommunication operators. Nevertheless, in many countries such techniques are often under-employed. The aim of this report is to describe the various economic modelling techniques and how they can be used to solve practical problems facing the telecommunication industry: for example how a proposed merger may affect competitive behaviour or how demand and profitability may be affected by a price change.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	45.-	E	28379	92-61-11421-0	76
		F	28380	92-61-11422-9	80
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		A	29879	92-61-11426-1	87
		C	29880	92-61-11425-3	76
		R	29878	92-61-11424-5	78
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		E, F, S, A, C, R	29881	92-61-11837-2	






## COSITU Version 1.0 SP2 - Software for the Calculation of Costs, Tariffs and Rates for Telephone Services

2004

Cost-based pricing, in particular calculation of interconnection rates, has been one of the most high-profile challenges facing both operators and regulators. Negotiating tariffs or rates is a delicate matter, whether it is for a new operator entering a liberalized market or a regulator wishing to set affordable tariffs for national calls without compromising competitiveness among operators. Now, ITU's Market, Economics and Finance Unit has released COSITU, a practical tool which automates the calculation of costs, taxes, tariffs and rates. This powerful tool will permit network operators, service providers, regulators and policy-makers in developing countries to efficiently calculate costs, taxes related to trade in international traffic (accounting, settlement and termination rates), interconnection rates between local operators and tariffs for national and international telephone services, both fixed and mobile. COSITU SP2 is a bilingual software package (software on CD-ROM + user manual: English/Spanish and English/French versions).



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	400.-	E, F	25970	92-61-10997-7	
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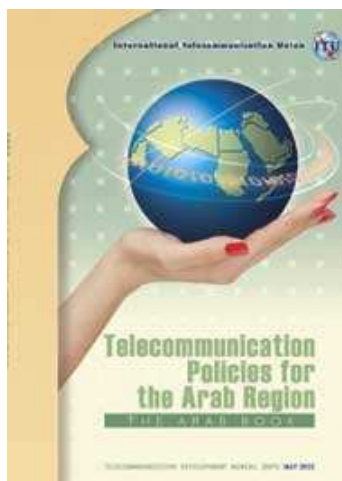


## Investing in Telecommunications and ICTs in Developing Markets: Shifting the Paradigm

2003

Telecommunications and ICTs have become a key infrastructure necessary for human development. As the sector has transformed into one driven by commercial interest, one question begs to be answered: what actions can be taken to stimulate private investment in the sector, particularly in countries and regions where the opportunities are less obvious? This report provides insight into answers to this question by analysing trends, examining risk factors facing potential investors and by identifying specific investment opportunities in developing markets. Finally, the report makes specific recommendations to the various stakeholders on actions that can be taken to 'shift the paradigm' so that investment will be attracted to those markets most in need.


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	90.-	E	24629	92-61-10611-0	204
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		S	24631	92-61-10613-7	218
		R	25808	92-61-10614-5	206
	90.-	E			
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## Telecommunication Policies for the Arab Region (The Arab Book)

2002



The Arab Book contains guidelines and recommendations for governments of the Arab region embarking on reform of their telecommunication sector. It was elaborated with the active participation of experts from the region's administrations. This second edition acknowledges the important changes that have affected the sector since 1996, year of the publication of the first edition. Since that date, following Jordan's example, eight other countries in the region have established a regulatory authority independent from the incumbent operator. Five of these countries have, in addition, introduced competition in an important segment of their telecommunication market. In addition to the themes presented in the previous edition, the reader will find a summary of the experience of Egypt, Jordan, Mauritania, Morocco and Sudan in the area of sector reform, and a new chapter devoted to recent development of the Internet.

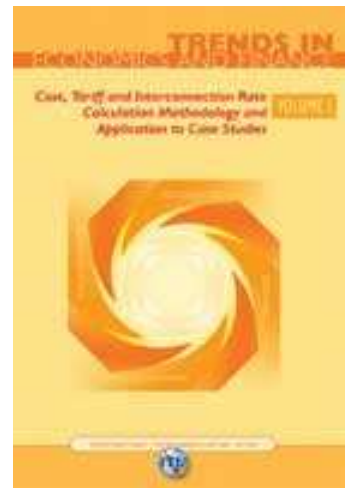
MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	50.-	E	21595	92-61-10001-5	148
		F	21596	92-61-10002-3	170
		A	21597	92-61-10006-6	164

## Trends in Economics and Finance Volume I: Cost, Tariff and Interconnection Rates - Calculation Methodology and Application to Case Studies

2001

This publication is aimed in particular at network operators and regulatory authorities in developing countries who do not have very detailed data at their disposal on their costs or on the development of prices in their market. The first part describes a model for the calculation of telephone service costs, tariffs and interconnection taxes. The second part shows how the application of this model in different situations (case studies) allows for the identification of national political demands concerning universal service obligations.

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	50.-	E	20539	92-61-07361-1	116
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		R	22046	92-61-07364-6	104
	50.-	E			
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## Telecommunication Policies for the Americas (The Blue Book)

2000

This second edition of the Blue Book is the result of continued coordination and collaboration between the ITU-D and CITEI (Inter-American Telecommunications Commission). The Blue Book has been updated to take into account the rapidly changing telecommunication environment. New aspects addressed in this edition include the Internet and WTO. The Blue Book is intended to provide countries of the region with appropriate guidance on telecommunication reforms and restructuring.

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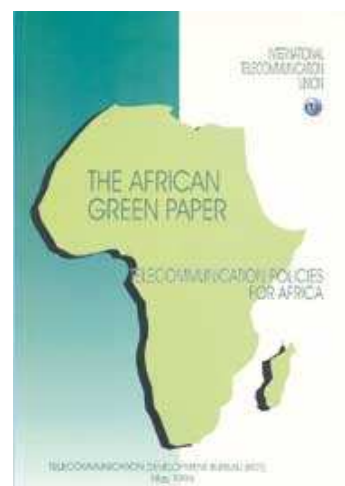
129

## The African Green Paper: Telecommunication Policies for Africa

1996

This publication is the result of collaboration among African experts since the first ITU African Regional Telecommunication Development Conference (1990). The African Green Paper explores specific themes related to the overall restructuring of the telecommunications sector. It comprises eight chapters and is intended to serve as a reference document for decision makers who are contemplating reform of the sector. It was formally approved at the second African Regional Telecommunication Development Conference (Abidjan, 1996).

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	60.-	E	7215	92-61-06321-7	160
		F	7216	92-61-06322-5	160



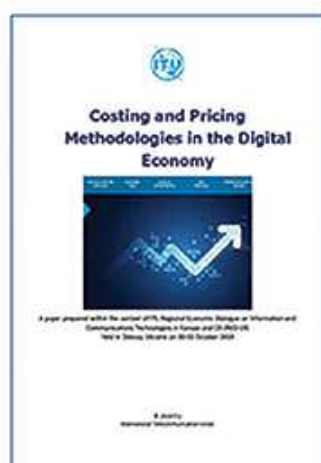


## ICT infrastructure business planning toolkit - 5G networks

2023

ITU first published the ICT infrastructure business planning toolkit in 2019 to address business planning challenges with mobile 4G and fibre-optic networks and it continues to offer a clear and practical methodology for the accurate economic evaluation of broadband infrastructure installation and deployment plans. This revised edition adds the design of networks to support sustainable 5G technology roll-out. 5G networks have the potential to expand high-speed connectivity but adoption remains a challenge in many developing countries. The toolkit addresses mechanisms to evaluate the sustainability of 5G projects.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S A C R			



## Costing and Pricing Methodologies in the Digital Economy

2019

In the digital economy, broadband networks are increasingly based on fibre optic cables, 4G and 5G mobile and IP transmission, optimized for data rather than voice traffic. This means that regulators have to establish new costing and pricing approaches for the broadband era. In this brave new world cost models continue to be needed, but their application should be focused on specific economic bottlenecks - essential infrastructure that cannot economically be replicated. Just as importantly, regulators have to make the transition from ex-ante to ex-post market intervention, so that investment and innovation can thrive.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Broadband connectivity for schools in Kenya funded by the Universal Service Fund - Assessment report

2023

This assessment compiles the lessons learnt and benefits that have been realised through connecting the schools, revealing the strategic importance of broadband connectivity as a critical enabler for teaching and learning.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

## ITU Thematic Reports

### Implementing 5G for Good: Do electromagnetic fields matter?

2021

Human exposure to electromagnetic fields (EMF) from radio frequencies (RF) (RF-EMF) has been an element of concern and dispute among the public in some countries and has often coincided with the deployment of next generations of mobile technology (2G, 3G, 4G and now 5G). The COVID-19 pandemic and the related spread of misinformation around fifth-generation (5G) mobile technology has exacerbated this trend and, fuelled by social media, has caused a spate of incidents in a variety of countries slowing down the deployment of 5G and affecting existing infrastructure and continuity of services. This report seeks to provide an overview of relevant scientific evidence and outline the main contemporary challenges relating to RF-EMF. It will take into consideration the work and deliverables from the International Telecommunication Union (ITU), the World Health Organization (WHO), the International Commission on Non-Ionizing Radiation Protection (ICNIRP) and the Institute of Electrical and Electronics Engineers (IEEE). Finally, the report elaborates on the dimensions and to what extent electromagnetic fields policy is relevant for the deployment of 5G mobile networks.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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### Global Digital Regulatory Outlook 2023 - Policy and regulation to spur digital transformation

2023

The Global Digital Regulatory Outlook 2023 benchmarks regulatory progress across 193 countries worldwide, building on the successful track record of the first three editions. This new analysis is the go-to reference for regulators and policy-makers seeking to understand a fast-moving landscape - and shape regulatory change that will benefit all in the quest for digital transformation. Almost a third of humanity remains unconnected - a sober reminder of the work that lies ahead.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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131

### Global ICT Regulatory Outlook

2018

The Global ICT Regulatory Outlook 2018 is the second edition of a landmark ITU series. The Outlook focuses on policy and regulatory trends in the ICT sector and brings together cutting-edge research on various topics. It also explores for the first time regulatory collaboration across the board. The report provides organic analysis based on home-grown data, expertise and analytics. The Global ICT Regulatory Outlook is targeted at a wide audience of ICT professionals, including ICT regulators and ministries, Chief Regulatory Officers, policy advisers and academia. The pdf version is now free of charge. New 2020 edition: mid-April 2020.

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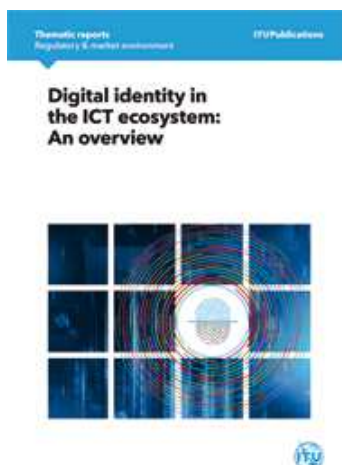
## Global ICT Regulatory Outlook

2017

This Global ICT Regulatory Outlook 2017 is the first of an annual series of reports tracking market and regulatory trends in the information and communication technologies (ICT) sector and their implications across the economy. Understanding current trends and challenges across ICT markets and regulatory frameworks can help address the gaps and capitalize on unexplored opportunities. This report provides useful insights and a clear, evidence-based perspective to do that. This report is also a key resource on smart, inclusive and forward-looking ICT regulation. Its findings can provide useful guidance in reviewing and upgrading regulatory frameworks for the ICT sector as the basis for the digital economy today and for the future. The report reaches out to the regulatory community worldwide, policy-makers, industry and the ICT community in general. The pdf version is now free of charge. New 2020 edition: mid-April 2020.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	61.-	E	40735	978-92-61-22091-4	224
	Free	E			

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## Digital identity in the ICT ecosystem: An overview

2018

This paper defines digital identity, provides an overview of the various types of digital identity systems, looks at different approaches taken and the range of challenges being faced, as well as opportunities that arise from using digital identity platforms.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Powering the digital economy: Regulatory approaches to securing consumer privacy, trust and security

2018

The report provides an outline of the value and the functioning of the digital economy, as well as requirements and considerations in terms of ICT and privacy regulation. It explores the issues of online privacy, trust and security, and how these influence and drive online data business models and data markets. It further examines the notion of trusted digital identity and what it means in terms of security by providing examples of digital identity systems.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Setting the scene for 5G: opportunities and challenges

2018

Prepared in collaboration with the ITU's Standardization and Radiocommunication Bureau, this report sets out the landscape for ICT policy-makers, national regulatory authorities (NRAs) and operators as the expectation of 5G technologies to transform citizens, businesses, governments and economies becomes a reality.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	F S A C R			



## Quality of Service Regulation Manual

2017

Ensuring quality of service (QoS) in this ever-changing environment is increasingly critical. A harmonized and common approach to regulating QoS would enable greater quality prospects irrespective of the locations of the consumer and service provider. This manual refers to different standards and regulatory practices from different regions and countries worldwide noting that each region and each country has its own specificities. It is intended to be used as a guiding tool for telecommunication national regulatory agencies (NRAs) or government ministries in charge of QoS and QoE (quality of experience) parameters and measurements as defined by ITU-T, as well as enforcement mechanisms. It further introduces more hands-on information regarding the QoS and QoE big picture, as well as outlining practical approaches in QoS regulation for telecommunication/ICT services.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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133

## Digital Regulation Handbook

### Digital Regulation Handbook

2020

This handbook serves as an essential guide to assist regulatory authorities and policy-makers in deciding on appropriate digital regulations, and evaluating the effectiveness of those regulations. Co-published as a collaboration between The World Bank and ITU, it provides online resources and analysis to assist ICT regulatory authorities worldwide to build capacity regarding topical regulatory issues and best practices related to the digital economy.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E F S C R			



## Thematic regional or national studies



### E-learning in Thailand: Mapping the digital divide

2022

At the initiative of the United Nations resident coordinator, and with support from the Government, ITU, together with UNESCO and UNICEF, undertook to map the digital divide in the context of school education in Thailand. This study presents data on access to digital devices and Internet connectivity among Thai students at school and at home. It assesses schools' readiness for e-learning by analysing secondary data obtained from the National Statistical Office, the Office of the Basic Education Commission, the Ministry of Digital Economy and Society, and the NBTC.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



### 5G implementation in non-European Union countries of the Europe region

2021

This report offers an in-depth dive in 18 non-European Union countries of the Europe region, and also provides the aggregate perspective across these countries. 5G implementation must be approached proactively and based on a solid understanding of the market, regulatory, and policy conditions at the country level. The report fills a gap in the European context, complementing the work done for EU countries through the EU 5G Observatory focusing on certain strategic, market, technical and regulatory aspects specific to each of the countries considered. It pinpoints a few particular challenges to 5G implementation encountered across multiple countries and where ITU could be of active support: i) the need for a 5G strategy, ii) the need to free the 700 MHz band for mobile communications while protecting broadcasting services, iii) the need to proactively address electromagnetic field policy and communication, and iv) the need to create local 5G innovation ecosystems and synergies at the country level.

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### Cadre de mise en place de l'infrastructure à clés publiques du Gouvernement du Mali

2022

Le Mali a décidé de se doter d'un cadre de mise en place d'une infrastructure à clés publiques (cadre ICP) pour renforcer les capacités nationales en matière de transactions électroniques, de protection contre la fraude à l'identité, d'intégrité des données, de confidentialité des données, d'authentification forte et de non-répudiation, de confiance et de facilité d'utilisation des services en ligne pour les citoyens. L'infrastructure ICP est un catalyseur de la transformation numérique des services publics en ligne, des services bancaires en ligne et du commerce électronique car elle augmente la confiance des utilisateurs dans l'environnement numérique. Ce rapport propose une analyse et étude comparative des plateformes de signatures électronique et un modèle pour la future ICP nationale au Mali.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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Egypt's digital transformation and collaborative regulation  
2023

ITU has developed a series of national country reviews on collaborative digital regulation, in partnership with government authorities, national stakeholders and recognized experts. Based on ITU's established evidence-based tools, the ICT Regulatory Tracker and the G5 Benchmark, the country reviews offer a comprehensive assessment of the regulatory and governance frameworks, policies, and practices in each studied country.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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NEW

Brazil country review: regulation in the digital transformation  
2023

ITU has developed a series of national country reviews on collaborative digital regulation, in partnership with government authorities, national stakeholders and recognized experts. Based on ITU's established evidence-based tools, the ICT Regulatory Tracker and the G5 Benchmark, the country reviews offer a comprehensive assessment of the regulatory and governance frameworks, policies, and practices in each studied country.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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NEW

Collaborative regulation for digital transformation in Kenya: A country review  
2023

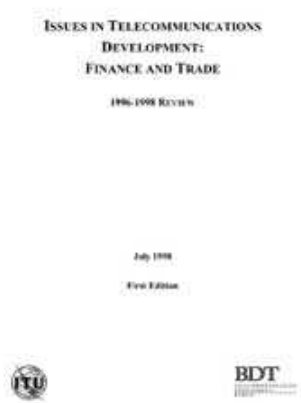
The country reviews highlight diverse experiences and different policy and regulatory patterns while exploring good practices, challenges and lessons learnt by regulators in navigating digital transformation. The country reviews also help develop a better understanding of the role and impact of collaboration and collaborative governance, and the use of new tools for regulating ICT markets.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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NEW

## Issues in Telecommunications Development Volume I: Finance and Trade



1998

This publication is intended to provide an annual review of various key issues in international telecommunications as examined by the International Telecommunication Union/Telecommunication Development Bureau - ITU/BDT. This year's authors have focused on trade, partnership and financing within the context of restructuring and globalization.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	80.-	E	13128	92-61-07361-1	496
		F	13194	92-61-07362-X	496
		S	13195	92-61-07363-8	496
		A	16746	92-61-07366-2	496
		R	20787	92-61-07364-6	496
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## Issues in Telecommunications Development Volume II: Reforming the international accounting rate system Part I - Overview Part II - Case Studies

1999

On behalf of the ITU, the Telecommunication Development Bureau has taken on the responsibility of assisting countries as they restructure their telecommunication sectors to meet the challenges of globalization and liberalization. Reports from Seminars/Workshops at which developing country representatives reviewed the moves towards international accounting rate reform and a number of papers dealing with cost calculation methodologies are in Part 1, and in Part 2 there are 11 Country Case Studies.

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	100.-	E	14362	92-61-07721-8	692
		F	14363	92-61-07722-6	692
		S	14364	92-61-07723-4	692
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## Reforming the international accounting rate system - 1999

2000

During 1999, ITU's Telecommunication Development Bureau continued to support developing countries' efforts to review telecommunication costs and tariff reform. This addendum to the 1998 Review of 'Reforming the international account rate system' contains the reports of the 1999 series of seminars and contributions from developing countries to the work of the Regional Tariff Groups and Study Group 3. These reports are complemented by three additional case studies.


MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	60.-	E	16854	92-61-08341-2	224
		F	16855	92-61-08342-0	224
		S	16856	92-61-08343-9	224
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## Financing universal access to digital technologies and services

2021

As universal access in the digital era goes beyond extending networks to bolster use and adoption, the level of investment required is huge, necessitating a considerable shift in the approach to funding universal access. Whether it is pooling financial resources, sharing open access infrastructure or leveraging public money to raise private funds, the goal is to extend limited financial and non-financial resources as far as possible. Today's fundamental funding challenge is to make rural and low-income areas and marginalized populations "worth" the investment risk for the private sector and co-investors, as the economic cost of exclusion is higher than the cost of closing the digital divide. Ensuring the effective participation of vulnerable and marginalized communities should be part of all universal access initiatives and projects. There are various financing options and innovative models, which are examined in the financing toolbox section of this report. Designed to provide practical guidance to our members and other stakeholders, this new report will contribute to reviewing and rethinking funds as a concept, exploring alternative models using a combination of monetary and non-monetary contributions and implementing innovative risk-mitigation mechanisms and financial solutions for smarter investments. It also provides guidance on the policy and regulatory frameworks needed to attract greater private sector participation in financing universal connectivity, access and uptake and explores business models for deploying supply and demand-side projects and initiatives in the digital era.



MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Benchmark of fifth-generation collaborative digital regulation

2021

The 2021 G5 Benchmark measures the state of collaborative digital regulation in 193 countries worldwide. Today, the digital economy is critical both to economic growth and job creation. Coherent and forward-looking cross-sector policy and regulation are no longer a choice, but an imperative. The quicker the digital economy develops, the sooner countries can reap its benefits. Policy-makers need to ensure continued investments in ICT infrastructure, increasing and diversifying the talent pool, strengthening innovation, promoting local digital industries, and fostering digital transformation of enterprises across the economy more broadly. The new G5 Benchmark captures how countries are addressing these needs via an active policy agenda that expands well beyond the ICT scope, through collaboration with agencies and ministries in other sectors, such as education, industrialization, and rural development. The Benchmark recognizes that there is no single approach to digital regulation and various national approaches can pave the way through the digital transformation. The framework helps assess countries' levels of preparedness for the digital transformation and aids national stakeholders to leverage its challenges and opportunities. The Benchmark can be used as a canvas to establish roadmaps for policy and regulatory uplift, and inclusive digital transformation across all sectors of the economy.



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## 4.9 Thematic Reports and Other Studies



### Country assessment to facilitate digital financial inclusion in Ethiopia 2022

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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### Green data centers: towards a sustainable digital transformation. A practitioner's guide 2023

Reliable, secure data-hosting solutions are becoming increasingly important to support everyday functions across societies, including for public management and service delivery. Although data infrastructure such as data centers and cloud solutions are essential for storing and processing data, they are highly energy intensive and consume refrigerants and often large amounts of water for cooling. As such, they leave a large environmental footprint and contribute to greenhouse gas (GHG) emissions. Climate change also affects data centers. Climate hazards such as floods and increasing temperatures put data centers at risk and require site specific adaptation measures to protect investments and ensure resilient data storage.

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NEW



### Greening digital companies 2023 - Monitoring emissions and climate commitments 2023

This edition of the Greening Digital Companies report by the International Telecommunication Union and the World Benchmarking Alliance focuses on the industry enabling this transformation and sheds light on the complex interplay between the digital industry and environmental challenges.

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NEW

## Switching on Smart Rwanda: Digital inclusion, collaboration and a G5 mindset

2021

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## 4.10 Publications on human and institutional capacity building and digital inclusion

### Towards building inclusive digital communities": ITU toolkit and self-assessment for ICT accessibility implementation

2023

The 2023 edition of the ITU toolkit "Towards Building Inclusive Digital Communities", incorporates content enhancements and website updates which aim to consistently empower ITU members and stakeholders with the most recent information, thus supporting their efforts in the execution of ICT/digital accessibility at national and regional levels to ensure that no one is left behind in the digital age. In addition, the toolkit's self-assessment, available in English, French and Spanish, which complement this resource, enables ITU members and stakeholders to effectively assess and track their progress in the implementation of digital inclusion initiatives by providing back to back tailored expert advice in line with global commitments on inclusion set by the United Nations Convention on the Rights of Persons with Disabilities, the 2030 Agenda for Sustainable Development and the Sustainable Development Goals. As a result, ITU members and stakeholders can uncover beneficial practices and solutions to ensure that digital information, products, services, and applications are developed and delivered in line with ICT accessibility requirements, standards, and universal design principles and thus are digitally accessible, to enable their use by all people, irrespective of age, gender, ability, literacy level, or geographical location. For more information see also video tutorial of the ITU toolkit and self-assessment available in Arabic, Chinese, English, French, Russian and Spanish.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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NEW

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### ITU study on the assessment of digital accessibility policies in Serbia

2021

This report is the result of direct assistance provided to the Government of the Republic of Serbia through the ITU Regional Initiative for Europe on accessibility, affordability and skills development for all, to ensure digital inclusion and sustainable development, under the overall coordination of the ITU Regional Office for Europe. This report encourages action to be developed and policies to be implemented for ICT accessibility and digital inclusion that will prevent mass exclusion of and discrimination against vulnerable populations, including persons with disabilities and older persons, in future emergency situations.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Ageing in a digital world - from vulnerable to valuable

2021

By 2050, the number of people aged 65 years or older is projected to reach 1.5 billion. "Ageing in a digital world - from vulnerable to valuable" is the first- ever report to be produced by ITU to raise awareness in the ICT sector on the importance of being prepared to respond to the needs and requirements of ageing populations. This report addresses the two global megatrends that reinforce each other: the emergence of digital technologies and ageing populations, both of which are predicted to bring about important socio-economic changes worldwide. The report aims to help ITU members and other stakeholders to understand digital opportunities and take advantage of new possibilities for economic, social and political growth from increased digital inclusion and age-friendly digital environments. It highlights trends, identifies good practices and possible solutions, and presents guidelines that can leverage the contributions of older generations, reduce their age-related vulnerability and foster their socio-economic development to achieve healthier and wealthier inclusive societies. It focuses on the role that ICTs can play in ensuring digitally inclusive communities in which older persons are active participants and valuable contributors.

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## Digitally empowered Generation Equality: Women, girls and ICT in the context of COVID-19 in selected Western Balkan and Eastern Partnership countries

2021

This report is the result of the collaborative efforts of the International Telecommunication Union (ITU) and the United Nations Entity for Gender Equality and Women's Empowerment (UN Women). It focuses on actionable recommendations to stakeholders when it comes to women and girls using, studying and working in digital technology in five Western Balkan States (Albania, Bosnia and Herzegovina, Montenegro, North Macedonia and Serbia) and three Eastern Partnership countries (Ukraine, Georgia and Moldova).

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## ICT accessibility assessment for the Europe region

2021

The ICT accessibility assessment for the Europe region was launched in the midst of the Coronavirus disease (COVID-19) pandemic, which has reinforced the importance of ICT accessibility. It has been designed to provide ITU members and stakeholders from the ITU Europe region with a holistic view of ICT accessibility requirements, the implementation status of ICT accessibility laws, regulations, policies and institutional frameworks, and with good practices and recommendations.

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## Digital Skills Assessment Guidebook

2020

ITU's Digital Skills Assessment Guidebook has been designed to serve as a comprehensive, practical step-by-step tool for national digital skills assessments. The guidebook can be used to determine the existing supply of a digitally skilled cohort at a national level, to assess skills demand from industry and other sectors, to identify skills gaps, and to develop policies to address future digital skills requirements. It is designed for use by policy-makers and other stakeholders, such as partners in the private sector, non-governmental organizations, and academia.

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## Toolkit for safe listening devices and systems

2019

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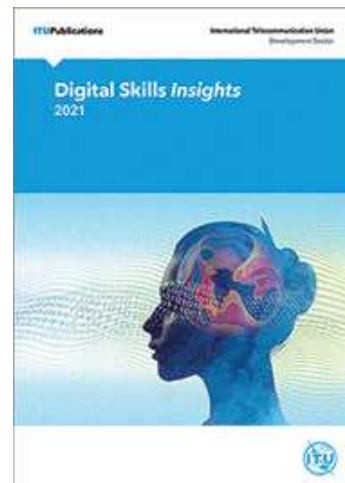


## Digital Skills Insights

2021

More than a year after the onset of the COVID-19 pandemic, the demand for digital skills development and better connectivity is greater than ever before. Re-building a safe, healthy and efficient working and social environment is a challenge that will require a collective global effort. Lack of digital skills and access to digital networks are barriers that not only slow down this joint effort, but exacerbate an already existing and stark digital divide.

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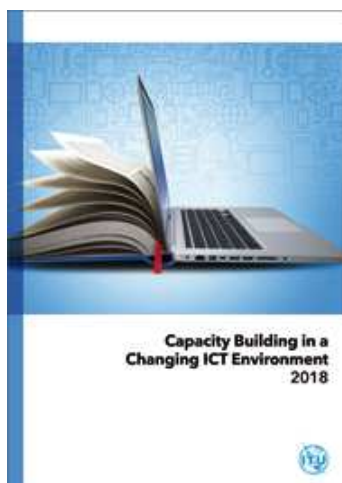
## Digital Skills Insights

2020

The 2020 issue of Digital Skills Insights features eight articles discussing different aspects of capacity development and skills requirements in the digital era. These include the types of skills needed in the digital economy and future labour market, new jobs and associated skills requirements, specific digital technologies and their impact on skills development, new skills required to manage data and information generated online, as well as a set of articles that explore the topic of gender and digital skills.

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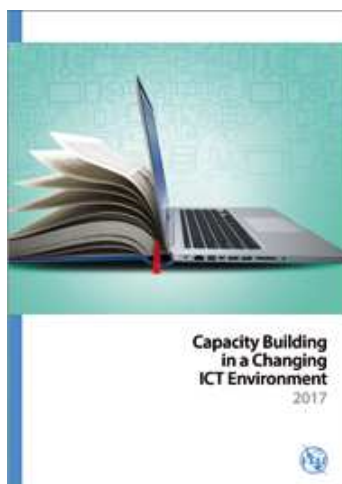


## Capacity building in a Changing ICT Environment

2018

This annually released publication puts together scholarly articles with a focus on the human and institutional aspects of capacity building in the telecommunications/ICT sector. It covers a wide range of ICT topics that may affect people and their skills development. As the second issue in the series, the 2018 edition features contributions in an analytical, critical and conceptual approach from international experts on the subject of skills development in a digital era, with articles contributing to the ongoing discussions on how emerging technologies are transforming job markets, determining new skills sets requirements and driving the digital economy requirements for re-skilling.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Capacity building in a Changing ICT Environment

Edition 2017

The ITU online publication "Capacity Building in a Changing ICT Environment", which is released annually, puts together scholarly articles with a focus on the human and institutional aspects of capacity building in the telecommunications/ICT sector. It covers a wide range of ICT topics that may affect people and their skills development. The first issue of this publication focuses on mobile technologies for skills development and lifelong learning. It features the work of an international team of experts, tackling the issues in an analytical, critical and conceptual fashion. The articles in this issue explore the increasing power of mobile devices in bringing the benefits of ICTs to more people worldwide. They are a contribution to the current discussions on the educational applications of mobile technologies and their potential to enhance and facilitate lifelong learning and skills development.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Challenges and opportunities for sustainable and effective connectivity policies in Brazilian schools

2023

This report analyses current policies relating to the provision of Internet connectivity in public schools in Brazil and explores costs of a sustainable national connectivity plan, presenting recommendations for medium- and long-term policies to achieve their goals.

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## Connectivity in education: Status and recent developments in nine non-European Union countries

This report, published jointly by ITU and the United Nations Children's Fund (UNICEF), offers an in-depth dive in nine countries of the Europe region, namely Albania, Bosnia and Herzegovina, Georgia, Moldova, Montenegro, North Macedonia, Serbia, Turkey and Ukraine, and also provides an aggregate perspective. Connectivity in education must be approached holistically as information and communication technologies (ICTs) can be drivers of i) digital skills development, ii) smart governance of education system, and iii) smart and flexible education delivery at school and at home. The report tackles connectivity in education by providing i) an overview of education systems and broadband markets at the country level, ii) an overview of government strategies in education and connectivity and the role foreseen for connectivity in education, iii) an account of multi-stakeholder partnerships and financing mechanisms for investment in school connectivity, and iv) an overview of the responses each country has undertaken to COVID-19 towards ensuring continuity of learning through ICTs. A catalogue of country challenges and a catalogue of country experiences that seek to provide stakeholders with a full picture of the challenges faced in the nine countries with regard to connectivity in education are also provided.

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## Guidebook on accessibility of online job application and recruitment systems

2022

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## ICT accessibility policy and regulatory framework overview in the CIS region

2021

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
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## Gender equality in digital policy in Ethiopia

2023

This country report provides an overview of the extent to which gender is addressed in Ethiopia's digital policies, strategies, and regulations, divided into categories such as international development instruments, national digital policies and strategies, and digital sector-related laws and regulations. The report includes a non-exhaustive list of specific programmes supporting digital inclusion in Ethiopia.

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## 4.11 Innovation

144

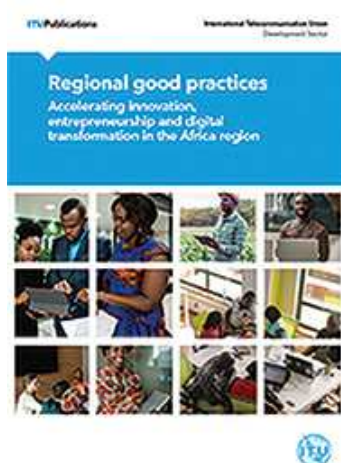


## Digital innovation profile Oman

2023

This Digital Innovation Profile, conducted in partnership with the Ministry of Transport, Communications and Information Technology (MTCIT) of the Sultanate of Oman, aims to accurately assess the country's digital ecosystem capacity and maturity to help Oman and its stakeholders navigate the digital innovation landscape. The aim is to help Oman to continue building new capabilities for a competitive, sustainable, and ICT-enabled economy that accelerates the development of the digital economy toward achieving Oman's vision.

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			



## Regional good practices: Accelerating innovation, entrepreneurship and digital transformation - Africa region

2021

MEDIA	PRICE CHF	LANGUAGE	ARTICLE	ISBN	PAGES
	Free	E			

## Regional good practices: Accelerating innovation, entrepreneurship and digital transformation - Asia-Pacific region

2021

The pandemic has highlighted the indispensable role of digital technologies for communicating, learning, working, doing business, and interacting with the society and economy. However, there are still barriers to connectivity, including affordability concerns. Digital innovations are necessary to overcome these hurdles. This report utilizes the ITU ICT-centric innovation ecosystems approach to highlight good practices that can be adopted throughout the region to close the digital innovation divide.

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## Regional good practices: Accelerating innovation, entrepreneurship and digital transformation - Arab States

2021

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	Free	E			



## Regional good practices: Accelerating innovation, entrepreneurship and digital transformation in Europe

2021

Innovation is at the core of sustainable development and inclusive digital transformation. Digital innovation helps create jobs, improve services, strengthen economic growth, and foster a knowledge-sharing society. Under the framework of the ITU Regional Initiative for Europe on 'Information and communication technology-centric innovation ecosystems', this regional report provides a comparative analysis of European countries using existing international rankings on ICTs, innovation and entrepreneurship. It also highlights various good practices and policies in the European region that can inform decisive actions in nurturing entrepreneurship-driven innovation.

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## Regional good practices: Accelerating innovation, entrepreneurship and digital transformation in the Americas region

2021

The Americas region is facing different realities regarding the evolution of innovation performances, coupled with some significant challenges: brain drain, insufficient resources, lack of adequate training and education in ICT-centric innovation and ? in some cases? insufficient infrastructure. At the same time, the region has many good practices and examples tackling and overcoming those challenges that can be used to accelerate digital transformation and serve as a basis for better policies in countries where gaps have been identified.

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## Bridging the digital innovation divide: A toolkit for developing sustainable ICT-centric ecosystem projects

2020

Building on ITU's innovation toolkit series, this revised toolkit adds new tools and shares more insights on how stakeholders can undertake rapid ecosystem diagnosis, establish key recommendations, and develop flagship projects that effectively nurture ICT-centric innovation within their digital ecosystems.

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## Digital Innovation Profile Montenegro

2020

Digital Innovation Profiles have been developed to provide an accurate assessment of an ecosystem's capacity and maturity. The assessment is done through a series of events in which stakeholders from the ecosystem come together to analyse the current situation and co-create appropriate solutions via flagship projects and/or initiatives, and policies designed to close the digital innovation gap.

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## Digital innovation profile: North Macedonia - Digital innovation ecosystem: Strategies and recommendations for accelerating digital transformation

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This National Digital Innovation Profile prepared by ITU provides a comprehensive look at the current state of the digital landscape and technology adoption in North Macedonia, exploring the latest trends, key players and innovative solutions shaping our country's future.

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NEW

## ICT-centric innovation ecosystem country review: Republic of Moldova


Moldova identifies itself among countries with a strong focus on enhancing the growth of the IT industry and positively expanding its potential. This report provides a snapshot of challenges and opportunities currently faced by stakeholders, and is complemented by seven key recommendations based on the needs analysis. These specific policies, programmes, or flagship projects recommendations will serve as a reference tool to help guide and support innovation with aim to make Moldova attractive as a potential hub for emerging technologies. These new approaches to policy-making became the basis for the new Strategy for fostering the digital innovation ecosystem currently being developed in the country.

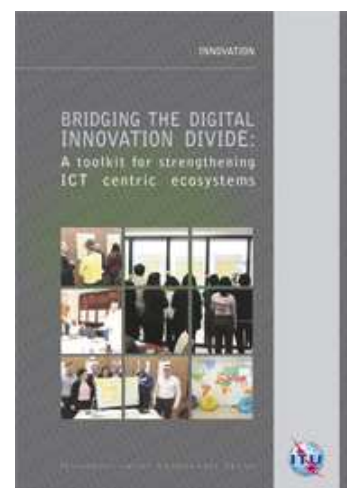
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## Bridging the digital innovation divide: A toolkit for strengthening ICT centric ecosystems

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## 4.12 Technology and network development



### Spectrum management training in the Asia-Pacific region: A bespoke framework

2022

The Report provides an analysis of the views of Member States and other membership of ITU from Asia and the Pacific on a wide range of matters relating to spectrum management technical requirements including the extent to which expertise in spectrum management is sufficient in their organisations, the importance to their organisation of having spectrum management expertise in their organisations, the spectrum management subject areas of most (and least) importance to them, and the preferred approach for delivering spectrum management training.

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### Guide for procuring last-mile connectivity data networks

2022

Traditionally, the Internet service providers build, deploy and provide data networks and services to end users. However, in some instances, building connectivity networks and providing connectivity services are initiated by other public or private institutions such as banks, electricity companies, educational institutions, communities or governments, to ensure additional coverage, quality of service and/or affordability. In such cases, it is often important to procure the connectivity project in order to build resilient data networks and provide required digital services. This guide is designed to assist requisitioners in procuring last-mile connectivity networks and services based on the principles of affordability, usage, financial viability, structure and sustainability. The guide provides a step-by-step overview of the process of procuring last mile connectivity data networks and services. It complements The Last-mile Internet Connectivity Solutions Guide, which was designed to address the lack of network infrastructure, with a view to encouraging more affordable service delivery.

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### Giga: Empowering communities in Asia and the Pacific through school connectivity

2021

This new report examines the feasibility of countries in the Asia Pacific region participating successfully in the Giga initiative and realizing their potential by exploring implementation through the four pillars of Giga (Map, Finance, Connect, and Empower). The report also emphasizes the importance of a comprehensive approach for mapping school connectivity that engages a wide range of stakeholders and that encourages the leveraging of existing government policies to deliver greater connectivity, including effectively utilizing USOs and USFs to connect schools, and highlights the importance of digital skills and how the Ministries of Education might help generate improved conditions for long-term connectivity in disadvantaged communities and in rural and remote regions.

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## Emerging technology trends: Artificial intelligence and big data for development 4.0

2021

Despite its great promise, the AI and data revolution is yet to yield tangible dividends for most developing countries. More often than not, these countries do not have all the prerequisites in place in order to collect sufficient data to utilize AI algorithms for development. Furthermore, existing data too often remain unused because they are released too late or not at all, are not available in digital format or lack the level of granularity needed for decision-making and local innovation. This report has been designed to help overcome these barriers and embrace the huge development opportunities offered by AI and big data deployment. It is intended as a guide for policy-makers and other stakeholders in crafting a national AI and data strategy for development. The report highlights opportunities and outlines good policy and regulatory practices for implementation, while also flagging key challenges and offering hands-on suggestions in managing and overcoming these roadblocks.

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## The Last-mile Internet Connectivity Solutions Guide: Sustainable Connectivity Options for Unconnected Sites

2020

Nearly half of the world population lacked access to the Internet in 2019, with most of these people living in the rural and remote areas of developing economies. Bridging the digital divide is a social and economic imperative considering that health, education, government and other services and applications rely on affordable, reliable and high-speed connectivity to serve communities around the world. The ITU Last-mile Connectivity Solutions Guide is designed to support governments in their role of regulating, funding and implementing universal access to connectivity. This guide provides ways of identifying the unconnected areas and selecting sustainable technical, financial and regulatory solutions to ensure affordability and accessibility to relevant connectivity services.

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## Policy and Regulation Initiative for Digital Africa: Spectrum sharing and compatibility studies to boost IMT deployment

2022

The Policy and Regulation Initiative for Digital Africa (PRIDA) is a joint initiative between the African Union, the European Union and ITU. It aims to foster universally accessible and affordable broadband across the African continent to unlock future benefits of Internet-based services. The activities of PRIDA are based on three tracks. ITU is responsible for PRIDA track 1, which aims to harmonize spectrum utilization in Africa, in particular spectrum allocated for wireless broadband access. Several spectrum bands were identified as suitable bands for wireless broadband deployment in Africa: 700 MHz, 800 MHz, 1.4 GHz, 2.3 GHz, 2.6 GHz, 3.5 GHz, 26 GHz and the upper frequency range 37-71 GHz. The report thus highlights the results of the work carried out under PRIDA track 1, with a focus on improving spectrum allocation based on international best practices. It provides a comprehensive set of guidelines to facilitate the deployment of wireless broadband (IMT) in Africa.

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## Build back better with broadband: Research stories from the front line 2022

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### 4.13 WTDC Resolutions and Recommendations

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