







Connecting the World

Information and Communication Technologies (ICTs) are increasingly being recognized by governments around the world as the key engine for economic growth and social development.

As the United Nations specialized agency for Information and Communication Technology (ICT), furthering development of ICTs around the world has long been at the core of our work, but has become even more vital over recent years when technological developments have given ICTs an essential role in every aspect of our lives. ICTs are not just an end in themselves, but are the key enablers of the other Sectors. That is why we believe that access to ICTs is essential in order to achieve the Millennium Development Goals (MDG) by 2015.

We can take heart from the incredible boom in mobile telephony over recent years, bringing us to a situation today where 90 per cent of the world population has mobile telephone coverage. We now need to push ahead and match this outstanding success with broadband access. Making broadband

available and affordable across the world has become a pressing issue for economic development to boost markets, create jobs and provide services such as telemedicine and e-banking.

The International Telecommunication Union's (ITU's) Development Sector (ITU-D) is addressing the many aspects of expanding ICT access and bridging the digital divide. Governments, private sector and industry are coming together through ITU-D to develop good policy, to create partnerships for ICT investment or to build human capacity for ICT development. The ITU-D is working with Member States through its cybersecurity programme to ensure that access to ICTs is safe. Emergency Telecommunications are also a key part of the ITU-D's agenda in view of the role of ICTs in disaster preparedness.

We look forward to working with you to bring the benefits of ICT access to all.

Dr Hamadoun I. Touré

Secretary-General International Telecommunication Union





Welcome to ITU-D

Committed to Responding to ICT Development Challenges

Never has the world of Information and Communication Technology offered such a variety of possibilities in so many areas of our lives. The evolution in ICT and in particular access to broadband has revolutionized our way of doing business, our health care, our leisure time and our way of communicating. Never has the world been so interconnected. This is good news if we ensure that everyone shares the benefits of the information society. The faster we advance, the harder we have to work to bridge the digital divide, both between and within countries.

Through a worldwide network of professionals and based on the priorities identified by our members, ITU-D is meeting this challenge by working with its members to build partnerships to create a global

and all-inclusive information society. Our collective efforts focus on developing and upgrading the ICT infrastructure, promoting an enabling policy and regulatory environment and developing the human capacity of our members.

As Director of the Telecommunication Development Bureau (BDT), I am fully committed to implement the exciting yet challenging mandate of ITU-D to promote ICT connectivity and achieve internationally agreed development goals.

I invite all potential partners to join us in this worthy endeavor of bringing the benefits of ICTs for all and to create the global information society.

Sami Al Basheer Al Morshid

Director

ITU Telecommunication Development Bureau







Our mandate

The Telecommunication Development Bureau (BDT), the development arm of the International Telecommunication Union (ITU), is mandated to foster international cooperation and solidarity in the delivery of technical assistance, and to support the roll out and upgrade of telecommunication/ICT infrastructure and services in developing countries.

The World Summit on the Information Society (WSIS) called upon ITU to play a key role in building a global information society where the benefits of ICTs are shared by all.

To this end, BDT promotes an enabling environment conducive to investment and the development and use of ICT infrastructures and applications. In particular, BDT, in cooperation with public and private stakeholders:

- assists Member States in developing and implementing appropriate and transparent legal and regulatory frameworks that promote access to ICTs
- provides the world community with authoritative analysis on the latest ICT trends and comparable ICT data worldwide
- facilitates access and use of Internet resources
- works to build trust and confidence in the use of ICTs
- builds human capacity in all ICT-related areas
- provides concentrated assistance to least developed countries and countries in special need
- assists Member States in disaster-preparedness and relief and provides technical, policy, regulatory and legal support in the area of emergency telecommunications
- provides support in climate change adaptation, e-waste reduction and e-disposal
- implements projects that foster digital inclusion by promoting ICT access and accessibility to disadvantaged groups and to rural and remote areas
- offers a global platform for the discussion of development priorities and strategies and for the adoption of action plans to guide the development work worldwide

Through its multi-pronged programmes, projects and activities, BDT supports the efforts of our membership to bridge the digital divide and extend the benefits of the information society to all.



Membership

ITU-D Sector Members Portal

invaluable means to enhance their visibility and take

ITU-D offers excellent as well as keep abreast of new opportunities for

For more information: www.itu.int/ITU-D/membership/index.html

How much does it cost to be an ITU-D Sector Member?

ITU Sector Members may choose their annual membership contribution, ranging from a maximum of 63'000 Swiss francs to a minimum of: CHF 7,950 Swiss francs

CHF 3,975 Swiss francs (for entities based in developing countries only)





ITU-D is fully committed to promoting ICT infrastructures, and services, supported by strong national backbones, to be universally available to all citizens in order to develop networked economies and information societies

ICT Infrastructure

Enhancing ICT infrastructure development

ICT infrastructure plays an essential role in achieving the WSIS goals on development and connectivity. BDT assists the membership in maximizing the use

of appropriate new technologies for the development of information and communication infrastructures. Its work covers:

- Broadband deployment
- Transition from analogue to digital broadcasting
- Assessment of traffic and demand
- Spectrum management and radio monitoring
- Interconnectivity, interoperability, network management, security, and quality of service standards for wired and wireless networks
- Mobile telecommunications
- Next-generation networks
- Rural and satellite telecommunications

For more information: www.itu.int/ITU-D/tech/index.html



ICT Applications

e-applications for socio-economic development

as well as business development and job creation,

demand-side driver that can encourage the adoption

development and the to support sustainable of public administration, business, education and training, health, employment, environment, agriculture and science within the framework of national e-strategies

- To devise national strategic planning frameworks and associated toolkits for ICT applications and services
- To promote the development of a cross-domain mobile application framework to improve the delivery of value-
- To improve education and healthcare
- To enhance access to quality education and manage the environment (including the effects of climate change)
- To develop and implement, in collaboration with relevant stakeholders, the implementation of large-scale ICT

For more information: www.itu.int/ITU-D/cyb/app/index.html



BDT is assisting Member States and national regulatory authorities in developing an enabling environment that fosters a transparent legal and regulatory framework. to stimulate investment and promote universal, ubiquitous and affordable

access to ICTs.

Enabling Environment

Designing sound policy and regulatory frameworks for the digital economy

A sustainable Information Society that ensures affordable and universal access to ICTs as well as creating and maintaining investment incentives for all market participants, rests on the creation and maintenance of an enabling environment. ITU-D assists Member States in developing an enabling

environment including the development and implementation of national ICT policies and plans, the creation and adaptation of legal and regulatory frameworks, and the promotion of investment through effective financial mechanisms in the telecommunication/ICT sector.

- The annual Trends in Telecommunication Reform publication is a key part of our effort to explore and amplify the knowledge and experience of policy-makers and regulators in the ICT sector
- The annual Global Symposium for Regulators (GSR) provides a unique venue for regulators and policymakers to meet and exchange views and experiences
- The ICT Regulation Toolkit, an ITU and infoDev joint initiative, offers an online resource designed to address complex regulatory challenges emerging from a rapidly evolving ICT industry
- The Global Regulators' Exchange (G-REX) is a unique password-protected online forum for regulators and policy-makers to exchange information and share experiences and best practices
- The ITU ICT Eye portal is a unique one-stop shop for telecommunication/ICT data collection and dissemination, giving access to the latest trends in regulation and tariff policies as well as in the development of the ICT sector

For more information: www.itu.int/treg - www.itu.int/ITU-D/finance/

ICT Statistics

Measuring the Information Society

With the growing recognition of ICTs as a driver for social development and economic growth, there is a need for reliable, comprehensive and comparable statistics to support government and industry

decisions. ITU is recognized all over the world as the main source of internationally comparable data and statistics on telecommunication/ICT.

- BDT collects more than 100 statistical indicators from over 200 economies worldwide. The data are maintained
 in the World Telecommunication/ICT Indicators (WTI) database, which includes time series dating back to 1960.
 They are disseminated through the website (ICT Eye), printed publications (such as the Yearbook of Statistics),
 CD-ROM, and by electronic download
- Key flagship reports include the Measuring the Information Society Report and the World Telecommunication/ ICT Development Report; they feature the latest global and regional ICT trends and measure the magnitude of the digital divide through tools such as the ICT Development Index (IDI) and the ICT Price Basket
- International standards and methodologies on ICT statistics are being developed in close cooperation with other
 regional and international organizations, including the United Nations, Eurostat, the OECD, and the Partnership
 on Measuring ICT for Development. BDT contributes actively to the monitoring of internationally agreed
 development goals and targets, such as the Millennium Development Goals and the targets agreed at the
 World Summit on the Information Society
- BDT provides capacity building and technical assistance to Member States in the area of ICT measurement through training courses and hands-on manuals. The World Telecommunication/ICT Indicators Meeting (WTIM) is the main forum to discuss information society statistics at the global level

BDT plays a key role in enhancing the availability of comparable ICT data worldwide and in analyzing the latest ICT trends and sector developments, which enables policy makers and business leaders to make informed and strategic decisions.





BDT considers international public policy issues on internet as an important issue of ICT for Development, and is making available its solid expertise in capacity building and technical cooperation at the global level.

Internet related issues

Facilitating access and use of Internet resources

Access to Internet and its resources has become a basic need for everyone, and developing countries risk being left behind due to lack of financial resources and human capacity.

Through its various programmes and activities BDT facilitates the development of international public policies and projects aimed at assisting Member States in making the best use of internet resources, such as IP-based networks, including IPv6 as well as Top Level Domain Names.

The proper use of these key resources that can greatly contribute to enhancing social and economic development, allowing countries to exploit the potential of national and international exposure offered by Internet

Cybersecurity

Building trust and confidence in the use of ICTs

With the ever-expanding use of the Internet and the proliferation of ICT-based services and applications, cybersecurity has become a major concern for governments, as well as stakeholders using ICTs. Users are increasingly exposed to unexpected threats such as identity theft, cybercrime, spam, malware, online trafficking, exploitation and harm to children and other at-risk groups.

BDT is supporting the membership, in particular developing countries, in achieving cybersecurity,

through a holistic approach taking into account international cooperation principles and national and regional needs, within the framework of the ITU Global Cybersecurity Agenda (GCA)

BDT is assisting Member States in the development of national and regional cybersecurity strategies, as an essential step towards building national capabilities for dealing with cyberthreats, including:

Supporting Member States' national and regional efforts to build capacity to protect against cyber threats,
 cybercrime

- Facilitating the establishment of Cybersecurity capabilities and services in Member States through the strategic
 partnership with the International Multistakeholder Partnership Against Cyber Threats (IMPACT)
- Establishing organizational structures, such as Computer Incident Response Teams (CIRTs), to identify, manage
 and respond to cyber threats and cooperation mechanisms at the regional and international levels
- Contributing to the implementation of ITU's Child Online Protection initiative, with the cooperation and support
 of the membership as active partners/contributors

ITU-D's plays a pivotal role in providing assistance in human and institutional capacity building that improves skills to support the development and use of ICTs, taking advantage of the most current methods and means of delivery that leverage the use of





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Capacity building

Empowering Minds

Decision-makers need to make sure that the digital divide, which remains a key concern for developing countries, does not also become a knowledge divide.

Training and education delivered through ITU and its partners address a very wide scope of ICT-related topics — ranging from training for government policy makers and regulators, to professional business-focused curricula for senior ICT executives and managers, to specialized programmes for technical and operational staff.

The ITU Academy initiative pulls together the diverse education, training and information efforts of the ITU-D in order to develop a harmonized and

streamlined approach to capacity building, and to ensure that what gets delivered to the end-user is fully evaluated as to its quality and relevance. It includes a web-based portal that allows for a single access point to all ITU training activities, whether delivered face-to-face — or through instructor-led and self-paced e-learning.

Supporting the ITU Academy initiative are a number of front-line training partners including the ITU Centres of Excellence and Internet Training Centres — all key players in delivering education, training and information in the regions.

For more information: http://academy.itu.int

Integrating Least Developed Countries (LDC) and Countries in Special Need in

- human capacity development

special need into the timely, and quality of ICT development.

For more information: www.itu.int/ITU-D/Idc/index.phtml



BDT provides technical, policy, legal, and regulatory assistance to countries through the use of ICTs to save lives before, during, and after disasters strike.

Emergency Telecommunications

Saving Lives

Emergency telecommunications play a critical role before, during, and after disasters strike. BDT provides assistance to Member States in:

- monitoring, detecting and predicting disasters
- designing National emergency telecommunications plans
- developing standard operating procedures
- designing and setting up early warning systems for alerting
- developing business continuity and disaster recovery plans
- setting up telemedicine systems for delivering healthcare in emergencies through interactive video
- using geographical information systems to produce high-resolution maps
- deploying wireless based telecommunications systems in the immediate aftermath of disasters
- rehabilitation of telecommunication networks when networks are disrupted or destroyed

When a country is hit by a disaster, BDT is ready to provide immediate assistance through the deployment of hybrid of information and communication technologies at no expense to the beneficiary country.

Climate change and the Environment

Climate change is one of the biggest challenges of our time and holds the key to the sustainable socio-economic development of countries.

BDT assists countries to use information and communication technologies to

- Monitor, mitigate and adapt to climate change
- Design adaptation frameworks or national climate adaptation plans
- Mobilize resources under the ongoing global effort of the Climate Change Fund
- Design tools and databases for handling the challenges of e-waste. The aim is to reduce e-waste through smart procurement, re-use of still functioning electronic equipment, and recycling those components that cannot be repaired
- Assist countries to develop and implement legal and regulatory instruments in e-climate change and e-waste management

the global efforts to assist countries adapt to climate change, mitigate its effects and to protect the environment through appropriate handling and disposal of e-waste.





BDT has initiated, during the period 2007-2010, 70 new projects amounting to over 40 million US dollars

Project Management

Responding to Country Needs

BDT has long-standing years of experience in the implementation of small and large scale ICT projects. These projects cover the domains of communication infrastructure development, capacity building, policies and regulation, e-services, emergency telecommunications, etc.

BDT has in-house expertise in the development of relevant project, building of innovative partnerships for effective resource mobilization, project implementation, monitoring and evaluation. With a worldwide network of dedicated experts,

BDT is well-positioned to deliver ICT for development projects at national, regional and global levels to help bridge the digital gap.

BDT current portfolio includes regional initiatives endorsed by the World Telecommunication Development Conference (WTDC) and other largescale initiatives.

BDT welcomes the opportunity to work with all stakeholders to deploy sustainable projects.



Providing a global platform on ICT Development Issues

World Telecommunication Development Conferences

Held every four years, the World Telecommunication Development Conference (WTDC) is a high-level platform for Member States to development priorities, strategies and action plans to guide the work of ITU-D over the next four-year period. Before every WTDC, preparatory conferences are held in each of the ITU-D

Regions. The last WTDC was held in Hyderabad, India, in 2010 and established the Hyderabad Action Plan. In between World Conferences the Telecommunication Development Advisory Group (TDAG) advises the Director of the BDT on the implementation of the Action Plan.





ITU-D constitutes one of the most important global platforms on ICT development which contribute to the achievement of the WSIS goals and the Information Society

Study Groups

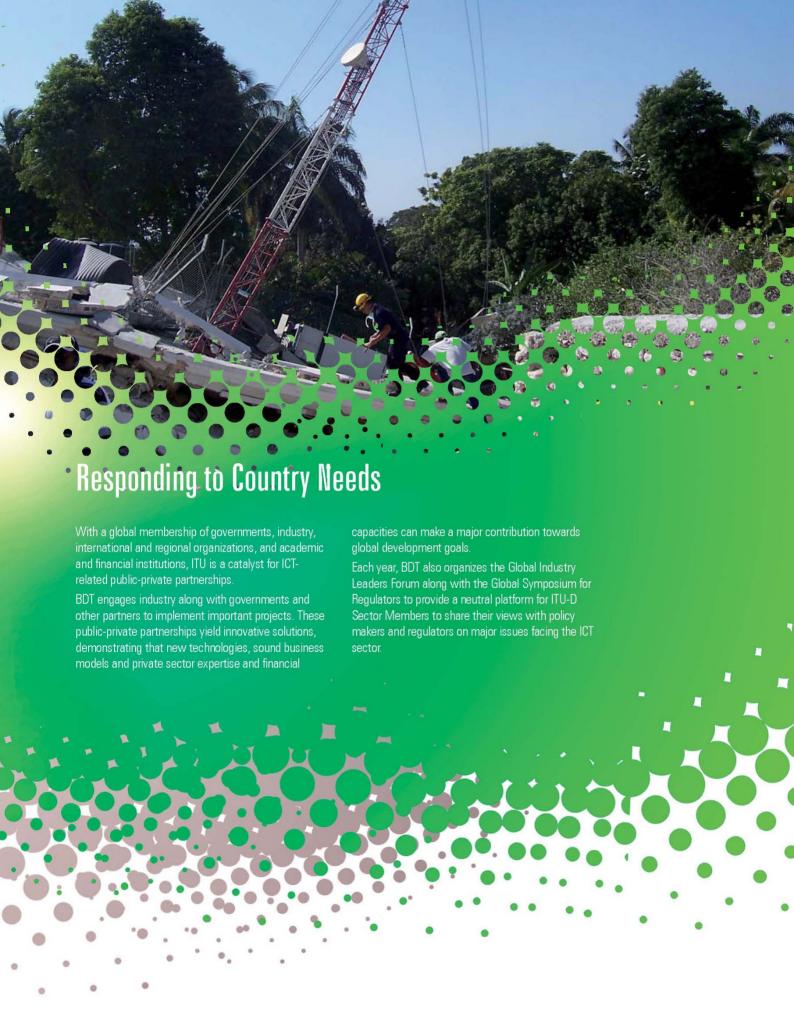
ITU-D study groups deal with specific task-oriented telecommunication questions of priority to developing countries, taking into consideration the ITU strategic plan and goals for 2012-2015, and

prepare relevant outputs in the form of reports, guidelines and/or Recommendations for the development of telecommunications/information and communication technologies (ICTs).

ITU-D has two Study Groups, providing a neutral forum for governments and industry to address priority issues for the ICT Sector.

- Study Group 1 addresses issues related to the enabling environment, cybersecurity, ICT applications and Internet-related issues
- Study Group 2 addresses issues related to information and communication infrastructure and technology development, emergency telecommunications and climate change adaptation

Each study group considers all aspects related to the issue and directly links their work to the various ITU-D programmes to create synergies that benefit the membership both in terms of activities, resources and expertise.





Fact Sheet

- More than 320 Sector Members worldwide
- About 70 new projects amounting to over US\$40 million have been initiated and are currently under implementation, during the period of 2007-2010
- More than 13 000 individuals from more than 100 countries in all regions received training over the last cycle 2006-2009. On average 115 courses were run annually with approximately 60 % of them being online courses and 40 % Face to Face
- Emergency Telecommunication assistance was given to over 139 countries in disaster preparedness
- More than 6000 delegates attended ITU-D meetings and conferences in the period 2008-2010, 41% from Member States of developing countries, 14% from least developed countries and 35% from ITU-D Sector Members and other entities.
- Around 60 countries are now part of the ITU IMPACT collaboration
- 200 economies are annually considered in the ITU-D statistical work

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