Please find below a contribution from Mr Ahmad R. Sharafat, Vice-Chairman of Region E (Asia-Pacific).

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| WSIS Implementation in Asia Pacific 2007-2019 |
|  |

**CWG-WSIS Report from VC Asia-Pacific**

**Ahmad R. Sharafat**

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# Executive Summary

The Asia-Pacific (ASP) Region covers about one-third of the world’s land mass, in which more than half of the world population live. Worldwide, 58 countries are identified as Small Island Developing States (SIDS), 15 of which are in this Region. Besides, from 38 ITU Member States served by the ITU’s Regional and Area Offices in the ASP Region, 12 countries are categorized as Least Developed Countries (LDC). In this report, we present an overview of ITU’s role and mandate with respect to WSIS, as well as a brief description of WSIS action lines, followed by a list of different activities in the ASP Region itemized per each WSIS action line from 2007 to 2019. As can be seen, there has been many activities, but considering the size, the population, and economic disparity in the ASP region, ITU is invited to enhance its activities in the region both in content and in numbers. The information on ITU activities were kindly provided by the ITU Regional Office in Bangkok, Thailand and the ITU Area Office in Jakarta, Indonesia. While every effort was made to provide a complete list, but a few activities may be unreported.

# Introduction

Coordination and implementation of the outcomes of the World Summit on the Information Society (WSIS) continues to be one of the priorities of the Secretary-General of the International Telecommunication Union (ITU). The Vision of the Union, as defined in the ITU Strategic Plan 2020-2023 is “an information society, empowered by the interconnected world, where telecommunication/information and communication technologies enable and accelerate social, economic and environmentally sustainable growth and development for everyone”, in line with the WSIS Outcome Documents. The Strategic Goals of the Union (namely, Growth, Inclusiveness, Sustainability, Innovation and Partnership) support the ITU’s role in facilitating progress towards the implementation of the WSIS Action Lines and the 2030 Agenda for Sustainable Development. Through these goals, the Union seeks to contribute to the development of an environment that is conducive to innovation, where advances in new technologies become a key driver for the implementation of the WSIS Action Lines and the 2030 Agenda for Sustainable Development. The Union also recognizes the need to contribute to the global partnership to strengthen the role of telecommunication/ICTs as means of implementation of the WSIS Action Lines and the 2030 Agenda for Sustainable Development.

There are 11 WSIS Action lines, C1 to C11. The International Telecommunication Union (ITU) has a role in the implementation of these Action lines as well as other aspects of WSIS as mentioned below:

1. Facilitator of Action Lines
* C2 (Information and communication infrastructure)
* C5 (Building confidence and security in the use of ICTs);
* C6 (Enabling environment).
1. Co-facilitator for Action Lines C1, C3, C4, C7 and C11; and partner for Action Lines C8 and C9
2. Rotating Chair of the United Nations Group on Information Society (UNGIS).
3. Steering committee member of the Partnership on Measuring ICT for Development.
4. Facilitator of the WSIS Stocktaking Process.
5. Initiator and facilitator of the WSIS Project Prize.

Different activities in the Asia Pacific Region are undertaken in-line with the Regional Initiatives and the objectives as agreed by World Telecommunication Development Conferences. These activities are linked to the WSIS action lines.

# World Summit on Information Society (WSIS)

The ITU has planned, organized and hosted the WSIS Forum since 2009 in collaboration with the other co-organizers, namely UNESCO, UNCTAD and UNDP. The annual WSIS Forum is a global multistakeholder platform that facilitates the implementation of the WSIS Action Lines. The Forum in close collaboration with all WSIS Action Line co-/facilitators and other UN organizations (UNDESA, FAO, UNEP, WHO, UN Women, WIPO, WFP, ILO, WMO, ITC, UPU, UNODC, UNICEF and UN Regional Commissions), provides opportunities for information exchange, knowledge creation and sharing of best practices, taking into account the evolving Information and Knowledge Societies. The WSIS Forum provides opportunities to develop multistakeholder and public-private partnerships to advance the development goals.

The WSIS Forum is a natural evolution of the Cluster of the WSIS related meetings held every May from 2006 to 2008 organized by WSIS Action Line facilitators and coordinated by ITU. Since 2009, the WSIS Forum itself has evolved into a unique platform for multistakeholder engagement and discussion on crucial issues concerning the information society. The WSIS Forum produces several documents, among which, the WSIS Forum Outcome Document released on the last day of the Event each year is of particular importance. The agenda, programme and format of the Forum is built in an open multistakeholder consultation process that consists of physical meetings and online consultations. The Forum comprises of high-level panels and forum tracks that include panels, WSIS Action Lines meetings, WSIS Action Line Facilitator’s meeting, thematic workshops, and various platforms for networking and initiation of partnerships.

The Outcome and the Emerging Trends Documents and other report can be accessed at:

* **Cluster of WSIS Related Events 2006:**

<http://www.itu.int/net/wsis/implementation/cluster.asp?year=2006&month=0&type='alf'&subtype=0>

* **Cluster of WSIS Related Events 2007:**

<http://www.itu.int/net/wsis/implementation/cluster.asp?year=2007&month=0&type='alf'&subtype=0>

* **Cluster of WSIS Related Events 2008:**

<http://www.itu.int/net/wsis/implementation/cluster.asp?year=2008&month=0&type='alf'&subtype=0>

In 2009 the cluster of WSIS related events were rebranded as the WSIS Forum.

1. **WSIS Forum 2009:** [http://www.itu.int/wsis/implementation/2009/forum/geneva/](http://www.itu.int/wsis/implementation/2009/forum/geneva/index.html)
2. **WSIS Forum 2010**: <http://www.itu.int/wsis/implementation/2010/forum/geneva/>
3. **WSIS Forum 2011**: <http://www.itu.int/wsis/implementation/2011/forum/>
4. **WSIS Forum 2012**: <http://www.itu.int/wsis/implementation/2012/forum/>
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9. **WSIS Forum 2017:** <http://www.itu.int/net4/wsis/forum/2017/>
10. **WSIS Forum 2018:** <https://www.itu.int/net4/wsis/forum/2018/>
11. **WSIS Forum 2019:** <https://www.itu.int/net4/wsis/forum/2019/>

**WSIS Action Lines**

Below are the Eleven (11) WSIS action lines with some explanation. The full text of each action line is available at [www.itu.int/wsis/PoA](https://www.itu.int/net/wsis/PoA).

**C1) The role of governments and all stakeholders in the promotion of ICTs for development**

• Cooperation among stakeholders • Millennium Declaration • Mainstreaming ICTs • Multi Stakeholder Partnership (MSP) • Multi-stakeholder portals for indigenous peoples • National e-strategies • Public/Private Partnerships (PPP).

**C2) Information and communication infrastructure: an essential foundation for an inclusive information society**

• Access  • Accessibility  • Affordability  • Assistive technologies  • Broadband network infrastructure • Digital inclusion  • Enabling and competitive environment  • ICT backbone  • ICT connectivity  • ICT equipment • ICT services  • Infrastructure  • Internet exchange points  • Investment • Satellite  • Traditional media • Remote and marginalized areas  • Ubiquitous computing/communications • Universal access/service • Wireless.

**C3) Access to information and knowledge**

• Access to public official information • Access to scientific knowledge • Digital public libraries and archives • ICTs for all • Multi-purpose community public access points • Open source, proprietary and free software • Public access to information  • Public domain information.

**C4) Capacity building**

• Basic literacy • Distance learning • Education/training • E-literacy • Gender • Combating illiteracy • Life-long learning  • Research and development (R&D)  • Self-learning  • Teacher training  • Training ICT professionals  • Volunteering • Youth

**C5) Building confidence and security in the use of ICTs**

• Authentication  • Building confidence and security • Consumer protection  • Countering misuse of ICTs  • Countering spam • Cyber-crime, •  Cyber-security  • Data protection  • Information security and network security  • Network integrity  • Online transaction security  • Privacy  •  Real-time incident-handling and response • Secure and reliable applications.

**C6) Enabling environment**

• Consumer protection  • Dispute settlement  • Domain name management  • E-commerce  • E-government strategy  •  Entrepreneurship  • ICT forums  • Intellectual property  •  Internet governance  •  Legal, regulatory and policy environment  • Privacy  •  Radio frequency spectrum  • Regional root servers  •  Secure storage and archival  • Small and medium sized enterprises (SMEs)  • Standardization

**C7) ICT applications: benefits in all aspects of life**

• Disaster recovery  •  E-applications  • E-agriculture  • E-business  •  E-commerce  •  E-employment  • E-environment • E-government  • E-health  • E-publishing  • E-science  •  ICT waste disposal  • Sustainable production and consumption  • Teleworking  • Transparency.

**C8) Cultural diversity and identity, linguistic diversity and local content**

• Cultural diversity  • Cultural exchange and information  • Cultural heritage  • Cultural industry  • Cultural policy  • Digital archive  • Disadvantaged and vulnerable groups  • Indigenous peoples  • Internationalized domain names  • Language-related ICT tools  • Linguistic diversity  •  Local languages  •  Traditional knowledge.

**C9) Media**

• Combatting illegal and harmful content in the media • Diversity of media ownership  • Gender portrayal in the media  • Media independence and pluralism  • Reducing international imbalances  • Role of media in the Information Society  • Traditional media • Training of media professionals  .

**C10) Ethical dimensions the Information Society**

• Common good  • Ethics  • Human rights  • Preventing abusive uses of ICTs  • Values.

**C11) International and regional cooperation**

• Financing of ICT networks and services • Infrastructure development projects  •  International mechanisms • Progress evaluation  • Regional action plan  • UN global compact.

# Asia-Pacific (ASP) Activities for Implementing WSIS Action Lines:

Below are activities in the ASP Region itemized per each WSIS action line.

## [С1. The Role of Public Governance Authorities and All Stakeholders in the Promotion of ICTs for Development](http://groups.itu.int/LinkClick.aspx?link=752&tabid=751&language=en-US)

### 2018-2019

The following activities/events/missions were performed/organized/undertaken:

* Assessment of market readiness for future IMT2020 (5G) networks.
* 4th Annual Asia-Pacific Spectrum Management Conference, supporting ITU Asia-Pacific Regional Initiative on Spectrum Management.
* Review and update of Spectrum charging regime.
* ITU Asia-Pacific Regulators Roundtable and International Training Program, Dhaka, Bangladesh.
* Maintenance and development of the interactive transmission map for the Asia-Pacific, Bangkok, Thailand.
* 4th Annual Asia-Pacific Spectrum Management Conference, supporting ITU Asia-Pacific Regional Initiative on Spectrum Management, Bangkok, Thailand.
* Assistance on updating Spectrum Management strategies, Port Vila, Vanuatu.
* Assistance on updating NTFA, Dhaka, Bangladesh.
* Enabling environment for digital applications and services, Ulan Bator, Mongolia.
* Strategic planning for ICT sector regulations, Kathmandu, Nepal.
* ITU/Rohde & Schwarz ITU Academy training workshop on implementation of radio monitoring systems according to ITU-R recommendations, Singapore.
* Review of International Long-Distance Telecom Policy, Dhaka, Bangladesh.

### 2014-2017

* During ITU Telecom World 2016, the Asia-Pacific Exchange on Broadband Regulation and Policy launched a joint ITU-Huawei white paper on broadband regulation and policy.
* The following national telecommunication and ICT policy, regulatory and legislative frameworks were strengthened through direct country actions:
* An amended telecommunications law was drafted for the Philippines (2015).
* A report on tariff policy and regulations was drafted for Lao P.D.R. by an ITU expert and eight MPT staff members.
* A licensing framework (2014), a post-liberalization review and a sector development strategy (2015) and a converged regulation framework (2016) were drafted for Timor-Leste.
* A telecommunication regulatory dispute resolution mechanism (2014) and a national ICT statistics and indicators framework (2016) were developed for Myanmar.
* Draft licensing rules were developed for Cambodia through direct country action in 2014. In addition, staff from different ministries benefited from capacity building.
* Countries also improved their regulatory frameworks through direct assistance:
	+ A detailed report on policy and regulatory aspects was provided to Mongolia (2014) for the introduction of next generation mobile networks, and assistance was also provided on unified licensing (2015), thereby enhancing the awareness of telecommunication sector stakeholders in general and the regulator in particular. Assistance on digital financial services was also provided (2017).
	+ Assistance on interconnection cost modelling was provided to the Communications Regulatory Authority of the Islamic Republic of Iran (2014).
	+ Guidelines were drafted for the Nepal Telecommunications Authority on how to foster growth in the telecommunication sector (2014).
	+ Expert assistance was provided on the numbering plan and introduction of number portability (Timor-Leste, 2015).
	+ Expert assistance on drafting a domain name management and operation report was provided to the Communications Authority of the Maldives (2016).
* Expert assistance through the TRAI-ITU Symposium on ICT Regulatory Challenges in Indian Smart Cities strengthened national frameworks and raised awareness for more than 90 participants (March 2015).

### 2011-2014

* The Pacific region was supported by Capacity Building and ICT Policy, Regulatory and Legislative Frameworks Support for Pacific islands Countries (ICB4PAC). ICB4PAC addresses the needs expressed by the Pacific regional organizations and the countries themselves for assistance in developing consistent ICT policies and legislations. Further to the endorsement of the regional reports for each of the above priorities (work areas), ICB4PAC has supported individual countries for putting the knowledge acquired into practice (in country technical assistance to 15 countries).

### 2007-2011

* The ICB4PAC project has created a real dynamism in the region, which was specifically highlighted during the Pacific Regional Information and Communication Technology (ICT) Ministers’ Meeting (Tonga, June 2010) (Tonga Declaration).
* Online training on Policy and Regulation for the Asia-Pacific Region.
* 6th Seminar on Telecom/ICT Policy and Regulation in China.
* Regional policy & regulatory Training for Asia-Pacific.
* Workshop on universal service obligation (USO): Policy & regulations for rural ICT development.
* Workshop on implementing mobile number portability.
* Workshop on Gender Balance in the Digital Economy.
* Gender in ICTs.
* Workshop on telecom network cost modeling for the Asia-Pacific region
* Ministerial meeting for South Asia

## [С2. Information and Communication Infrastructure](http://groups.itu.int/LinkClick.aspx?link=753&tabid=751&language=en-US)

### 2018-2019

* Supporting IPv6 implementation in the Asia-Pacific region.
* Asia Pacific IS & IDI/Statistics Workshops.
* Concentrated assistance in Telecom/ICT Development for LDCs/SIDs in the Pacific.
* Internet Access and Adoption.
* Assistance on developing regulations for maritime wireless communication.
* Policy and regulatory assistance to Mongolia.
* Strengthening human capacity building in Asia-Pacific.
* Assistance on updating RF resource management strategies for enabling digital societies.
* Harnessing ICTs for Rural Development.

### 2014-2017

* Developed compliance testing of mobile base stations and broadcast stations for Bhutan’s BICMA in 2016.
* National broadband policies were drafted for Bhutan (2012-2014, 2016), Brunei Darussalam (2013-2014), Marshall Islands (2014), Philippines (2014), Vanuatu (2014), Cambodia (2016) and Sri Lanka (2016). Brunei Darussalam adopted its policy in 2015.
* Understanding of broadband infrastructure was deepened through improvements made to the online interactive transmission map for the Asia-Pacific region, in collaboration with the United Nation Economic and Social Commission for Asia and the Pacific (UNESCAP).
* Studies were drafted on national broadband policies (Smartly Digital Asia-Pacific 2020), affordable access to the Internet and a broadband feasibility study, which were presented to the Papua New Guinea National Information and Communication Technology Authority (2015).
* Assistance was provided to Mongolia on regulatory and technical matters: in 2014 on satellite coordination and planning; in 2015 on transit traffic planning, licensing and IPv6; and in 2017 on digital financial services, spectrum management and ICT statistics. The above activities enhanced the capacity of stakeholders in Mongolia.
* Assistance to Bhutan on an IPv6 roadmap and IPv6 infrastructure security.
* Technical assistance to Nepal (Republic of) and enhanced capacity on emergency preparedness by developing the Nepal Emergency Telecommunication Continuity Management System (NETCOMS) in 2015.
* Assistance to the National Communications Authority of Timor-Leste on developing its emergency communications plan was provided in 2015.
* ITU supported Pakistan in drafting the Pakistan Emergency Telecommunication Regulatory Framework (PETRF) in 2016.
* Spectrum management master plans were prepared for Bangladesh, Brunei Darussalam, Fiji, Pakistan, Samoa and Thailand in partnership with the Republic of Korea’s MSIP (2014 to 2016).
* Twenty-four ITU Member States in ASP region have since been assisted on developing their national roadmaps for transition from analogue to digital terrestrial television (DTTV) broadcasting: Afghanistan, Bangladesh, Bhutan, Cambodia, Fiji, Indonesia, Kiribati, Lao P.D.R., the Maldives, Micronesia, Mongolia, Myanmar, Nepal (Republic of), Nauru, Papua New Guinea, the Philippines, Samoa, Solomon Islands, Sri Lanka, Thailand, Tonga, Timor-Leste, Vanuatu and Viet Nam. This was made possible through the support of the Republic of Korea’s MSIP, MIC Japan, Australia’s DOCA and ITU operational programmes. ITU also worked closely with ABU and the Asia-Pacific Institute for Broadcasting Development (AIBD) to promote the transition from analogue to digital broadcasting and post-transition activities.
* Guidelines on the transition from analogue to DTTV broadcasting have been updated and case studies on completed DTTV broadcasting implementation were published for Australia, Japan and Thailand (2013 – 2015). A report on interactive multimedia services in the Asia-Pacific region (Trends and Insights 2015) increased the awareness of new technology deployment in the Asia-Pacific broadcasting sector.
* Digital broadcasting (television and radio) studies were undertaken for the National Broadcasting and Telecommunications Commission of Thailand (NBTC). The projects, while focused on Thailand, have also benefited other countries in the Asia-Pacific region.
* Analogue switch-off (ASO) and DTTV broadcasting regulations were reviewed for Papua New Guinea in August 2015 to enable a smooth migration.
* Reviewed the ASO road map and status and the DTTV broadcasting plan for the Philippines in 2015. Under this plan, the Philippines targeted 2020 for ASO implementation.
* Fiji implemented its DTTV broadcasting through a national trial in 2016, following the ITU transition roadmap, with ASO in 2017.
* In partnership with ABU and AIBD, the fourth Regional Workshop on Over-the-Top and Integrated Broadcast Broadband Technologies and Services for Media resulted in increased awareness of around 60 participants from 20 countries.
* Support was provided to Vanuatu for updating of its National Table of Frequency Allocations. Capacity-building assistance was also provided to Bhutan in 2015 to review its national spectrum management framework in the interests of efficient resource utilization, through delivery of a national workshop attended by participants from 12 organizations.
* Improved policy and regulatory skills gained by participants from governments, regulators, industry and academia through:
	+ A training event on Strategic Costing and Business Planning for Quadplay, with 60 participants from 18 countries (Thailand, 2014).
	+ Strategic Costing and Convergence Planning for the Pacific, with participants from 5 countries (Fiji, 2014).
	+ Online training on Broadband Quality of Service – a Regulatory Perspective, with participants from 17 countries (2014).
	+ A workshop on ICT Indicators in Statistics for ASEAN and Pacific island countries, with 80 participants from 20 countries (Thailand, 2014).
	+ ITU/PTA Regulatory Training on Licensing and Service Regulation, for trainees from the Afghanistan Telecommunication Regulatory Authority (Pakistan, 2015).
	+ A licensing regime review for Sri Lanka (2015-2016).

### 2007-2011

* Regional Working Group & Public/Private Partnership Forum (PPPF-2007) - Asia & Pacific Region.
* Subregional Meeting for Cambodia, Lao, Myanmar and Viet Nam and a Planning Workshop on Establishing New Regulators.
* New Telecommunication/ICT Technologies and Services for DPR Korea and Bangladesh.
* Establishment of Model Community ICT Center for the USF (Universal Service Fund), Pakistan.
* ITU Workshop on ICT Applications for Rural Communication Development.
* ICT for Marginalized Groups in Sri Lanka.
* ICT indicator for Asia and the Pacific: Statistics & Publication.
* Assistance on Human Capacity Building in Myanmar.
* Workshop on spectrum management for policy makers/regulators.
* Workshop on Wi-Max/Wi-Bro technologies.
* ITU Regional Development Forum: "Bridging the ICT standardization gap in developing countries" for Asia-Pacific region.
* Impact assessment of Telecom in remote area - Bhutan (ITU-UPU India Project).
* ITU/ABU workshop on digital TV broadcasting services.
* Rural Broadband Communication Development in Nepal.
* Workshop on New Approaches to Spectrum Management.
* On-line course on spectrum management (Group 1).
* Operational plan on wireless technologies to deliver broadband services to Lifeline Organizations in the Philippines.
* Spectrum Management Plan for Vanuatu.
* ICT Master Plan for Thailand.
* Emergency communication backup through Radio Broadcasting in Tonga.
* Infrastructure sharing arrangements at hill tops, Afghanistan.
* Regional Cybersecurity Forum for Asia-Pacific.
* Forum on Next Generation Telecommunications for the Pacific Region.
* Workshop on Gender Balance in the Digital Economy.
* Subregional Telecommunication Meeting for CLMV.
* Asia Media Summit.
* Coordination meeting for Multipurpose Community Telecentres (MCT) Project in Afghanistan.
* On-line course on fundamentals of IPv6.
* Regional Workshop in ASP on the Toolkit for training policymakers on mainstreaming ICT accessibility for persons with disabilities.
* Subregional Telecommunication Meeting for CLMV.
* Gender in ICTs.
* Asia-Pacific regional workshop on Frameworks for Cybersecurity and Critical Information Infrastructure Protection (CIIP).
* Training on radio spectrum monitoring techniques.
* Implementation of National ICT Policy in Tonga.
* Assistance in Telecommunication Policy and Regulatory Reform in PNG.
* Assistance on Policy and Regulation to ANPT Lao PDR.
* Establishment of national Internet exchange of Afghanistan (NIXA).
* Workshop on NGN planning and migration.
* ITU/ABU workshop on digital TV broadcasting services.
* ITU regional development forum for Asia-Pacific Region.
* Asia media Summit 2010.
* Studies on broadband over power lines.
* Disaster warning system in Tonga.
* Rural Internet connectivity system (RICS) in Kiribati.
* Numbering plan.
* Broadband infrastructure master plan.
* Radio spectrum management.
* Assistance with national spectrum plan.
* Workshop on IMT advanced.
* Assessment of effectiveness of telecentre deployment in Asia-Pacific.
* Rural Internet connectivity system (RICS) implementation in the Pacific.
* NGN Planning and Migration.
* Training workshop on costing for Asia and the Pacific.
* Training on frequency and coverage planning for digital TV.
* Technical assistance in establishing a government network in micronesia (FSM).
* Technical assistance on preparing regulatory guidelines on broadband through universal service.
* Establishment and operational support for rural telecentres.
* Broadband access and uptake in rural and urban areas.
* Asia Pacific Regional Forum on Digital Inclusion for All.

## [C3. Access to Information and Knowledge](http://groups.itu.int/LinkClick.aspx?link=755&tabid=751&language=en-US)

### 2018-2019

* Internet access and adoption.
* Workshop on digital transformation in digital economy.

### 2014-2017

* Developed a national ICT statistics and indicators framework in 2014 and a cybersecurity policy in 2015 for Lao P.D.R. to foster an ICT-enabling environment.
* In response to WSIS target of connecting all primary, secondary and post-secondary schools to ICTs by 2015, inn Sri-Lanka, ITU supplied 25 schools with 25 PCs and printers to. Braille printers and other e-accessibility facilities were also made available.
* ITU organized a national workshop in Kathmandu, Nepal, worked with the Ministry of Information and Communications and ATRA in Afghanistan and carried out a study to identify gaps and make recommendations for policy, regulatory and project intervention/initiatives to implement ICT accessibility for persons with disabilities in both countries. Outcomes included: commitments from policymakers and industry to cooperate and participate in promoting ICT accessibility in Nepal, identifying organizations who will champion the underprivileged groups, formulating a draft code of practice/ guidelines, as appropriate, to encourage a light touch regulatory approach.
* Raising awareness on the need for improved access to broadband infrastructure, applications and services through organizing the following events:

o The Asia-Pacific Digital Societies Policy Forums attended by over 200 participants from more than 20 countries (Thailand).

o The Asia-Pacific Regional Forums on e-Government, Smart Cities and Digital Societies for Sustainable Development were attended by over 200 participants (Thailand, 2015 and 2016).

o The Asia-Pacific Regional Forum on Reshaping Policy and Regulatory Landscape for Accelerating Broadband Access was attended by 115 participants from 19 countries (Indonesia, 2015).

o Enhanced awareness for policymakers in China through annual ITU/MIIT (Chinese Ministry of o Industry and Information Technology) seminars: Broadband development and innovation using the Internet (2014).

o ICT Development in Internet+ Age, with more than 100 participants (2015).

o Regulation in the new era, with more than 150 participants (2016).

### 2011-2014

* Digital broadcasting in the Asia-Pacific region was endorsed as a Regional Initiative for Asia-Pacific by WTDC-10, as well as a HAP Programme 1 component. In 2012, with the support from ITU-KCC Project, the guidelines on transition from analogue to digital terrestrial television broadcasting was updated by taking into account the situation in the Asia-Pacific region, a section on migration of broadcast archives from analogue to digital was also added. In 2011, Cambodia, Mongolia, Nepal, Sri Lanka, and Tonga completed their roadmap reports under the ITU-KCC project.
* In 2013, ITU-MIC Japan project updated further the guidelines to include the information on satellite, cable TV, and IPTV.
* Under ITU-KCC and ITU-MIC projects (2009-2013), the roadmap reports were completed in 14 countries (Bhutan, Cambodia, Fiji, Indonesia, Lao P.D.R., Maldives, Mongolia, Myanmar, Nepal, Papua New Guinea, Philippines, Sri Lanka, Thailand, and Tonga) and continued in 2013 for 5 countries (Bangladesh, Micronesia, Timor-Leste, Vanuatu, and Viet Nam).

### 2007-2011

* Assistance on the determination of spectrum fees.
* 6th Seminar on Telecom/ICT Policy and Regulation in China.
* Training on bridging the standardization gap.
* Training on spectrum management software for developing countries (SMS4DC).
* ICT for marginalized groups in Sri Lanka.
* ICT indicators for Asia and the Pacific: Statistics & Publication.
* Regional seminar on costs and tariffs and regional meeting of the Tariff Group for Asia and Pacific (TAS).
* Impact assessment of telecom in remote areas - Bhutan (ITU-UPU India Project).
* On-line course on broadband technologies for rural ICT development.
* Infrastructure sharing arrangements at hill tops – Afghanistan.
* Workshop on gender balance in the digital economy.
* Subregional Telecommunication Meeting for CLMV.
* Executive training on enabling frameworks for telecommunication/ICT development.
* Regional seminar on costs and tariffs and regional meeting of the tariff group for Asia and Pacific (TAS).
* Coordination meeting on multipurpose community telecentres (MCT) project in Afghanistan.
* Regional workshop in ASP on the toolkit for training policy makers on mainstreaming ICT accessibility for persons with disabilities.
* Regional seminar on costs and tariffs and regional meeting of the SG 3 Regional Group for Asia and Pacific (SG3RG-AO).
* Subregional telecommunication meeting for CLMV.
* Gender in ICTs.
* Empowering rural women through ICTs.
* Implementation of national ICT policy in Tonga.
* Establishment of national Internet exchange of Afghanistan (NIXA).
* NGN access network planning: a case study on TOT’s network in Thailand.
* Guidelines on migration to NGN and infrastructure development.
* Broadband access and uptake in rural and urban areas.
* Broadband masterplan and UAS policy.
* Asia-Pacific regional forum for ICT applications.
* Roadmap for e-government services deployment.
* Development of the telecentre toolkit.
* Capacity building for training institute in Afghanistan.
* Workshop on human resource development in the Pacific.
* Asia Pacific regional forum on digital inclusion for all.

## [C4. Capacity Building](http://groups.itu.int/LinkClick.aspx?link=756&tabid=751&language=en-US)

### 2018-2019

* Strengthening human capacity building in Asia-Pacific.
* Girls in ICT Day celebration in Asia-Pacific.
* Young ICT leaders forum 2018.
* Internet access and adoption.
* Assistance on developing regulations for maritime wireless communication.
* Assistance on updating NTFA.
* Monitoring RF spectrum in modern wireless era.
* Strengthening human capacity building in Asia-Pacific.
* Pacific radio communication workshop 2019 (PRW-19).
* Technical skill development on spectrum management systems.
* Digital transformation forum for the Pacific.
* Coding bootcamp for digital skills development and youth employment.
* Young ICT leaders forum.
* Workshop on digital transformation in digital economy.

### 2014-2017

* ITU Asia-Pacific regional seminar on IMT towards 2020 and beyond (Technology and Spectrum) organized in Viet Nam (2014), supported by the Ministry of Information and Communication. Over 150 experts and senior officials from 24 Member States (including officials from outside the Asia-Pacific region), as well as several worldwide operating agencies and scientific or industrial organizations participated.
* Capacity-building training on SMS4DC was organized in 2014 for Samoa, Solomon Islands, Timor-Leste, Tonga and Vanuatu, currently using the system to manage their national spectrum.
* ITU/PTA (Pakistan Telecommunication Authority) regulatory training on licensing and service regulation attended by regulatory staffs from Afghanistan and Pakistan (2015).
* Capacity building for 50 participants from nine Pacific member states through the ITU Asia-Pacific CoE training on telecommunication strategy for the Pacific (2015). This was carried out in partnership with the Pacific Islands Telecommunications Association (PITA) and Australia’s Department of Communications and the Arts (DOCA), as well as with the Internet Training Centre in Samoa, through a train-the-trainer programme.
* The ITU/PTA (Pakistan) training on mobile application development organized for Afghanistan’s Information Communication Technology Institute (ICTI) (2016).
* Capacity building on countering misappropriation of telephone numbers in Pacific island countries, supported by Australia’s DOCA (2017).
* The region has seen improved capacity and awareness on the part of its Member States in addressing emergency telecommunication issues through various activities, including the sharing of best practices on emergency communications. Governments, regulators and industry, through various training events, received training or capacity building in the following areas:
* Digital broadcasting technologies and their implementation, with 77 participants from 16 countries (2014, India).
* Wireless security practices for policymakers and regulators, with participants from 13 countries (2014, ITU Academy online).
* Smart technologies and services in the LTE‐advanced era, with participants from 10 countries (2014, Busan (Republic of Korea)).
* Internet and IPv6 infrastructure security for telecommunication networks in 2014 and 2015, with participants from 8 countries in June and July 2014; 10 countries in May 2016 (Nonthaburi (Thailand)); and 11 countries in May 2017 (Thailand).
* Spectrum monitoring, with close to 50 participants from 14 countries (2015, Beijing (China)).
* Interactive multimedia services and pay TV with 65 participants from six countries, (Hanoi (Viet Nam)).
* Mobile cloud computing applications for developing value-added services, with 73 participants from 7 countries (2014, Hanoi (Viet Nam)).
* Cloud forensics and security, with participants from 9 countries (2014, Nonthaburi (Thailand)).
* Satellite network registration procedures and international regulations, organized jointly with ITU-R, with 66 participants from 25 countries (2015, ITU Academy online), under the umbrella of the ITU Asia-Pacific CoEs and partners.
* Broadband access network planning, with participants from 4 countries, (2015, Ghaziabad (India)).
* Conformity and interoperability, with participants from 7 countries (2015, Beijing (China)).
* Broadband quality of service, with 51 participants from 7 countries (2015, Bangkok (Thailand)).
* Developing the ICT ecosystem to harness the Internet-of-things, with close to 50 participants, under the umbrella of the ITU Asia-Pacific CoEs and partners (2016).
* Broadband access network planning (2016).
* Spectrum management, online, with 143 participants (2017).
* Conformity and interoperability for 4G LTE, online (2017).
* IoT: Technology, Standards and Planning, with 71 participants, Tehran (Islamic Republic of Iran) (2017.
* Training was also organized to build capacity in:
* Broadband policy for universal access, with 51 participants from 30 countries, through the ITU Academy online (2014).
* Smart sustainable cities, jointly organized by ITU-T and ITU-D, with 50 participants from 11 countries (Bangkok, 2014), and 107 participants from 12 countries (India, 2015).
* Wireless broadband roadmap development, with 55 participants from 9 countries (Islamic Republic of Iran, 2016).
* Quadplay: costing and pricing infrastructure access, with some 60 participants from 14 countries (Thailand, 2016).
* Broadband access technologies (online, 2016).
* Training and expert cybersecurity and COP events improved skills and enhanced national and regional awareness:
* Training CERT staff from Cambodia, Lao P.D.R., Myanmar and Sri Lanka (Lao P.D.R., 2014).
* Experts from AfCERT trained through the EC-Council information security bootcamp programme (Afghanistan, 2014).
* A cyberincident simulation and the Conference on National Critical Infrastructure Protection (Bangkok (Thailand), 2015), in collaboration with the Ministry of Defense of Thailand, with over 200 participants.
* A report prepared for the Nepal (Federal Democratic Republic of) on cybersecurity and COP, and a national workshop organized with 60 participants.
* Thirty incident responders from 20 Philippines government agencies trained in cyberincident handling (2016).
* ITU supported around 70 teachers and students from local elementary schools in 3 rural villages in Indonesia, through participation in ICT-related teaching activities in partnership with Intel Indonesia.
* ITU assisted Nepal (Federal Democratic Republic of) in the development of the national cybersecurity strategy (2016) and trained over 50 participants.
* In order to build capacity, raise awareness and engage participants from governments, regulators and industry, the following activities were undertaken:
* Training the senior management on the development of a telecommunication sector strategy for the Pacific, and preparing a 5-year roadmap, with over 50 participants from 9 countries (2015, Fiji).
* Assisting the Communications Regulatory Authority of Maldives on affordable Internet access.
* Presentation on next-generation network project planning and costing for participants from 6 countries (2016, India).
* Presentation on m-health for stakeholders and partners in India, including participants from the Ministry of Health and Family Welfare, Ministry of Communications & Information Technology, Telecom Regulatory Authority of India, National Standardization Organization, National Health Portal, insurance companies, telecom service providers, hospitals, ITU APT Foundation, Advanced Level Telecom Training Centre (ASP CoE), academia, experts, WHO and ITU (2016).
* Training on spectrum management and monitoring for participants from 14 countries (China).
* Online training through ITU CoEs and China Academy of Information and Communication Technology on C&I in telecommunication networks, mobile terminals and electromagnetic compatibility for 52 participants from 15 countries.
* Training on C&I for IMS (IP multimedia subsystem) and 4G-LTE (Long Term Evolution) for 39 participants from 10 countries (China, 2016).
* Assessing cybersecurity and critical infrastructure protection in Thailand, in collaboration with the Global Cyber Security Capacity Centre, Oxford University and NBTC Thailand.
* Training on postal e-strategies (Thailand, June 2016 and June 2017) in partnership with the Asian-Pacific Postal Union.
* Report on the Implementation of the Dubai Action Plan:
* Organized the Second Asia-Pacific Regional Forum focusing on smart cities and e-government (Thailand, 2016).
* Organizing a forum on e-agriculture solutions for establishing a community of e‑agriculture solution providers and enhancing cooperation between ICT and agriculture communities in Asia-Pacific Region for 120 participants from 29 countries including policymakers, regulators and industry players, Thailand (2016).
* Training-the-trainers, organized jointly with FAO for stakeholders in national e-agriculture strategies in Thailand (2016).
* Training participants from 10 countries on spectrum management (2016).

### 2011-2014

* Skill enhancement on digital broadcasting through 8 regional workshops and training sessions organized during 2011 to 2013 with more than 650 attendees. Many of these were organized in partnership with national and regional regulatory associations.
* Over 1 800 participants were trained under the ITU ASP CoE trainings in 2011, 2012 and 2013 with support from the ASP Centres of Excellence and partners through 44 training programs while international training programmes built skills of over 170 participants. The ITU- IDA training program in 2012 and 2013 benefited more than 50 participants. Projects with the Department of Communications in Australia, NBTC in Thailand and in-kind assistances from ITU ASP COEs and partners supported the capacity-building activities.

### 2007-2011

* Online training on policy and regulation for the Asia-Pacific Region.
* Virtual forum on knowledge management for the Asia-Pacific Region.
* Regional workshop on competencies and knowledge management for the Pacific Islands.
* Regional policy & regulatory training for the Asia-Pacific Region.
* Regulatory study-visits: Bhutan & Nepal.
* Subregional meeting for Cambodia, Lao, Myanmar and Viet Nam; and a workshop on establishing new regulators.
* Training on bridging the standardization gap.
* Asia-Pacific forum on NGN planning.
* Training on spectrum management software for developing countries (SMS4DC).
* New telecommunciation/ICT technologies and services for DPR Korea and Bangladesh.
* Assisting Myanmar on human capacity building.
* Executive programme on the enabling frameworks for ICT development.
* Workshop on broadband technologies for rural connectivity.
* Workshop on universal service obligation (USO): policy & regulations for rural ICT development.
* Workshop on spectrum management for policy makers/regulators.
* Worskhop on the economics of next generation networks.
* Workshop on Wi-Max/Wi-Bro technologies.
* Workshop on implementing mobile number portability.
* Training-the-trainer distance learning course.
* Regional workshop on strategic human resources management for the Pacific Islands.
* E-learning tutorial on spectrum pricing for IMT services for the Asia-Pacific Region.
* ITU/ABU workshop on digital TV broadcasting services.
* On-line course on broadband technologies for rural ICT development.
* Workshop on information framework for CIOs.
* Workshop on new approaches to spectrum management.
* On-line course on spectrum management (Group 1).
* Infrastructure sharing arrangements at hill tops, Afghanistan.
* Workshop on gender balance in digital economy.
* Telecommunication institutional strengthening for Lao PDR.
* Subregional meeting on telecommunications for CLMV.
* Executive training on enabling frameworks for telecommunication/ICT development.
* Establishing the ICT training facility in Mongolia.
* On-line course on fundamentals of IPv6.
* Regional workshop on the toolkit for training policy makers on mainstreaming ICT accessibility for persons with disabilities.
* Expert-level training for national regulatory authorities on cost modeling in Asia-Pacific.
* Gender in ICTs
* Empowering rural women through ICTs
* Supporting ITCI: establishment of new Internet training centre
* Implementation of national ICT policy in Tonga
* Assistance in telecommunication policy and regulatory reform in PNG
* Assistance on policy and regulation to ANPT Lao PDR
* Establishment of national Internet exchange of Afghanistan (NIXA)
* Elearning course on broadband technologies for rural ICT development-2nd edition
* E-learning course on universal service obligations (USO)
* Workshop on NGN planning and migration
* ITU/ABU workshop on digital TV broadcasting services
* Workshop on telecom network cost modeling for the Asia-Pacific Region
* National ICT strategic plan (2010-2015)
* Human capacity building on ICT
* Training on frequency and coverage planning for digital TV
* Institutional strengthening for Timor Leste
* Costing methodologies and tariff plan
* National cybersecurity strategies & cyber-crime legislation
* Regional workshop on asset recovery and fighting cybercrime
* Asia-Pacific Regional Forum for ICT Applications
* Roadmap for e-Government services deployment
* Development of telecentre toolkit
* Training on quality of service monitoring and enforcement
* Capacity building for training institute in Afghanistan
* Study on upgrade of Telecom Training Institute
* Workshop on human resource development in the Pacific
* ITU Internet training centre initiative: instructor community support in ASP Region
* Asia Pacific Regional Forum on Digital Inclusion for All

## [C5. Building Confidence and Security in the Use of ICTs](http://groups.itu.int/LinkClick.aspx?link=757&tabid=751&language=en-US)

### 2018-2019

* Regional National Cybersecurity Strategy Workshop, Indonesia

### 2014-2017

* In 2016, ITU provided Bhutan’s BICMA with expert support on EMF radiation measurement from mobile and broadcasting stations and on the drafting of standard operating procedures.
* ITU facilitated capacity building for five experts from the Afghanistan Computer Emergency Response Team (AfCERT), provided under an EC-Council information security bootcamp programme in November 2014.
* National Cybersecurity Strategy for Nepal (Federal Democratic Republic of) was drafted in 2016, enhancing the awareness and capacity of some 100 government, regulatory and private-sector stakeholders. Successful cybersecurity simulation demonstrations were held, and cooperation with the Nepal Telecommunication Authority for continued work on cybercrime legislation was enhanced.
* A regional workshop on DTTV broadcasting with participants from 20 countries was organized in Malaysia in 2015 in collaboration with AIBD and ABU.
* In Pacific Media Partnership Conference (Partnering for Broadcasting), held in Samoa in 2015 and jointly organized by ABU, ITU and Pacific Media Partners with the support of the Australian Government’s DOCA and Samoa Broadcasting Corporation, over 50 participants shared knowledge and expertise on enhancing and promoting broadcasting within the region.
* The Asia-Pacific Regional Workshop on Satellite Coordination, held in 2015 at the invitation of the Philippines’ DOST-ICTO and in cooperation with ITU-R, APT and Australia’s DOCA, was attended by 70 experts from 20 countries.
* The first Asia-Pacific Regional Forum on e-Government and Smart Cities, held in Thailand in 2015, deepened the understanding and awareness of 333 participants through sharing of experiences from 39 countries.
* National Workshop on New Technologies and Policy and Regulatory Implications, held in 2016 in Lao P.D.R., was attended by over 60 national government officials from the Ministry of Posts and Telecommunications, other concerned ministries and local government agencies.

### 2011-2014

* ITU and ASEAN agreed to collaborate on joint actions that will strengthen the capacity of Cambodia, Lao P.D.R., Myanmar and Viet Nam (CLMV) in the area of cybersecurity.
* In 2013, capacity building for the ICT Training Institute for Afghanistan was undertaken by providing technical literature on cyber security.
* Support was provided to Bangladesh for building national strategy and capability for cybersecurity.
* As an input to the Ministerial Meeting in August 2010 in Maldives, CIRT assessment was carried out for five LDCs from South Asia covering Afghanistan, Bangladesh, Bhutan, Maldives, and Nepal in 2010 and 2011. Subsequently, implementation of CIRT infrastructure for Bhutan was carried out in 2013.
* ITU and UNODC organized Asia-Pacific Regional Workshop on Fighting Cybercrime attended by 70 participants from 19 countries with legal and technical background. The workshop, organized in partnership with SPO, KISA and KiC, adopted recommendations for the way forward while fostering international cooperation amongst cross-sectoral stakeholders.
* The ASP CoE Trainings on Securing Networks in 2011 organized in partnership with IMPACT and DBCDE (Australia) and Mobile Security with IMPACT and NBTC (Thailand) in 2013 built skills for more than100 participants.

### 2007-2011

* Regional Working Group & Public/Private Partnership Forum (PPPF-2007) – Asia-Pacific Region
* Asia-Pacific Forum on NGN Planning
* Workshop on Principles of ICT legislation
* Regional Workshop on Frameworks for Cybersecurity and Critical Information Infrastructure Protection
* Impact assessment of Telecom in remote area - Bhutan (ITU-UPU India Project)
* Regional Cybersecurity Forum for Asia-Pacific
* Regional seminar on costs and tariffs and regional meeting of the tariff group for Asia and Pacific (TAS)
* Coordination meeting on Multipurpose Community Telecentres (MCT) Project in Afghanistan
* Regional seminar on costs and tariffs and regional meeting of the SG3 Regional Group for Asia and Pacific (SG3RG-AO)
* Asia-Pacific regional workshop on Frameworks for Cybersecurity and Critical Information Infrastructure Protection (CIIP)
* Assistance for the development of cybersecurity capabilities and deployment in Asia-Pacific
* Training workshop on costing for Asia and the Pacific
* Regional seminar on costs and tariffs and regional meeting of the SG3 Regional Group for Asia and Pacific (SG3RG-ASP)
* Technical assistance on Emergency Warning & Response in Tuvalu
* Regional Multi-stakeholder Forum on Emergency Telecommunications
* National Cybersecurity Strategies & Cyber-Crime legislation
* Regional Workshop on Asset Recovery and Fighting Cybercrime

## [C6. Enabling Environment](http://groups.itu.int/LinkClick.aspx?link=764&tabid=751&language=en-US)

### 2018-2019

* Assessment of market readiness for future IMT2020 (5G) networks
* 4th Annual Asia-Pacific Spectrum Management Conference, supporting ITU Asia-Pacific Regional Initiative on Spectrum Management
* Assistance on updating spectrum management strategies
* Assistance on updating NTFA
* Enabling environment for digital applications and services

### 2014-2017

* The project on spectrum management system for developing countries (SMS4DC) started in 2014 with support also from the Republic of Korea’s MSIP, providing ten countries with higher-resolution terrain data and software testing.
* In partnership with the Republic of Korea’s MSIP, ITU provided assistance to selected countries in the Asia-Pacific Region to establish national spectrum management master plans (see also ASP RI 3).
* ITU supported Lao P.D.R. on drafting tariff policy and regulations, and from 2014 to 2016, the staff of the Ministry of Posts and Telecommunications (MPT) were involved in the work of the expert, thereby benefiting from expert knowledge transfer.
* In 2014, ITU carried out a competition regulation and a universal service fund mechanism review for the ICT sector for Bhutan InfoCom and Media Authority (BICMA).
* From 2014 to 2016, Timor-Leste benefited from a licensing framework, a sector development strategy, an Internet exchange and a converged regulatory framework, the latter based on a post-liberalization review.
* In Myanmar, ITU supported the development of telecommunication regulatory dispute resolution in 2014 and a national ICT statistics and indicators framework in 2016.
* Licensing rules and regulations were developed for Cambodia in 2014, enhancing the telecommunication regulatory environment and institutional capacity in the area of licensing.
* The enabling environment for ICT applications was improved through development of an e‑agriculture strategy (e-renewable natural resources (E-RNR) master plan) for Bhutan with support from FAO, ITU and other partners.
* Direct country assistance was provided on each of the following cases: ICT-sector growth (Nepal (Republic of)); enabling efficiency in energy management through ICTs (Pakistan); licensing (Cambodia and Timor-Leste); national ICT indicators and statistics framework (Lao P.D.R.); telecommunication regulatory dispute resolution (Myanmar); improving the interoperability framework (Mongolia); e-agriculture (Bhutan, Fiji, Papua New Guinea, the Philippines, Sri Lanka); competition framework (Bhutan); improved awareness and skills towards the deployment of IPv6 (Lao P.D.R., Cambodia, Mongolia).

### 2011-2014

* Under HAP Programme 1, the Wireless Broadband Master Plan project was implemented in partnership between ITU and Korean Communications Commission to assist selected Asia-Pacific countries. The project aimed at addressing the digital divide by utilizing wireless broadband technologies and best practices regulatory frameworks for spectrum management, technology, competition and content development. Myanmar, Nepal, Samoa, and Viet Nam received assistance. General guidelines for countries in the Asia-Pacific Region were also developed to serve as a reference to develop their own wireless broadband master plan and the opportunity to explore wireless broadband issues as part of the development of an overall country broadband master plan.
* In response to requests from ITU Administrations particularly from the Asia-Pacific Region, ITU and the Ministry of Communications and Information Technology (MCIT) of the Republic of Indonesia jointly organized with support from the Department of Broadband, Communications and the Digital Economy (DBCDE), Government of Australia, the ITU Asia-Pacific Regional Workshop on Satellite Launching and Coordination in Yogyakarta, Indonesia in 2013. The Workshop brought together 112 participants from 15 Member States from the Asia-Pacific region and included satellite operators, experts and practitioners, senior government officials and other stakeholders from the satellite industry.
* Assistance was also provided to Mongolia on strengthening their national framework pertaining to satellite related rules and procedures.

### 2007-2011

* Online training on Policy and Regulation for the Asia-Pacific Region
* 6th Seminar on Telecom/ICT Policy and Regulation in China
* Regional Policy & Regulatory Training for Asia-Pacific
* Regulatory study-visits: Bhutan & Nepal
* Subregional Meeting for Cambodia, Lao, Myanmar and Viet Nam and Workshop on Establishing New Regulators
* Training on spectrum management software for developing countries (SMS4DC)
* ICT for Marginalized Groups in Sri Lanka
* Executive Programme on Enabling Frameworks for ICT Development
* Workshop on broadband technologies for rural connectivity
* Workshop on universal service obligation (USO): policy & regulations for rural ICT development
* Workshop on implementing mobile number portability
* On-line course on broadband technologies for rural ICT development
* Spectrum Management Plan for Vanuatu
* ICT Master Plan for Thailand
* Infrastructure sharing arrangements at hill tops, Afghanistan
* Forum on Next Generation Telecommunications for the Pacific Region
* Workshop on Gender Balance in the Digital Economy
* Telecommunication Institutional Strengthening for Lao PDR
* Subregional Telecommunication Meeting for CLMV
* Executive Training on the enabling frameworks for telecommunication/ICT development
* Subregional Telecommunication Meeting for CLMV
* Expert-level training for national regulatory authorities on cost modeling for the Asia-Pacific Region
* Gender in ICTs
* Empowering rural women through ICTs
* Implementation of National ICT Policy in Tonga
* Assistance on policy and regulation to ANPT in Lao PDR
* Establishment of the National Internet Exchange of Afghanistan (NIXA)
* E-learning course on broadband technologies for rural ICT development - 2nd edition
* E-learning course on universal service obligations (USO)
* Workshop on telecom network cost modeling for the Asia-Pacific Region
* National ICT Strategic Plan (2010-2015)
* Numbering Plan
* Assistance on Establishment of Telecommunication Regulatory Authority (TRA) of Vietnam
* ACMA/ITU International Training Program
* Institutional Strengthening for Timor Leste
* Technical assistance on preparing regulatory guidelines on broadband through universal service
* Review of telecommunications regulations
* Costing methodologies and tariff plan
* Broadband masterplan and UAS policy
* Number portability policy and strategies
* Regional seminar on costs and tariffs and regional meeting of the SG3 Regional Group for Asia and Oceania (SG3RG-AO)
* Training on quality of service monitoring and enforcement
* Asia Pacific Regional Forum on Digital Inclusion for All

## [C7. ICT Applications](http://groups.itu.int/LinkClick.aspx?link=765&tabid=751&language=en-US)

### 2018-2019

* Deployment of E-applications and E-agriculture Solutions Forum
* Girls in ICT Day Celebration in Asia-Pacific Region
* Supporting E-applications in Asia-Pacific Region
* Coding bootcamp for digital skills development and youth employment

### 2014-2017

* Forum on Enabling Efficiency in Energy Management through ICTs was organized in 2014 in Islamabad (Pakistan), with over 50 participants from Pakistan, and a report was drafted for the country’s Ministry of Information and Technology.
* ITU and FAO assisted Fiji and Papua New Guinea in developing e-agriculture strategies, and Bhutan and Sri Lanka in strategy implementation
* From 2014 to 2017, ITU members were assisted in the development of applications and cloud computing through:

o Assessment and potential use of mobile applications in the health sector in Bangladesh (2014).

o National Workshop on Cloud Computing, in Colombo (Sri Lanka) in 2015, with 60 participants from the government, the regulator, the industry and the academia.

o Tailored training to build capacity and skills on mobile-application development and mobile-mediated solutions for trainees from Afghanistan’s ICTI, in 2016. The training was facilitated by Pakistan’s PTA.

o In 2015, in Nonthaburi (Thailand), participants from four countries were trained on green ICTs, smart grids, and e-waste solutions in smart sustainable cities.

o From 2014 to 2016, in partnership with the Food and Agriculture Organization (FAO), ITU enhanced the capability of members and stakeholders to use ICTs for agriculture by developing a National e-Agriculture Strategy Guide to assist countries in developing their own national strategies.

o In 2015 and 2016, an e‑renewable natural resources (E-RNR) master plan was developed for Bhutan, and a national e‑agriculture strategy was prepared for Sri Lanka. Several new partners (including Technical Centre for Agricultural and Rural Cooperation and CAB International) have been engaged in this area since 2014. FAO and ITU assistance is ongoing in Fiji, the Philippines and Papua New Guinea to develop their e-agriculture strategies, and in Bhutan and Sri Lanka for the implementation of that strategy.

o In 2015, training on Internet transit traffic planning was provided to policy-makers, regulators and industry in Mongolia.

* Assistance was provided to Lao P.D.R (2014), Mongolia (2015), Cambodia (2016) and Bhutan (2017) on IPv6 deployment. The work was implemented through strong partnerships with national governments, the Asia-Pacific Network Information Centre (APNIC), and Australia’s DOCA.
* Assistance was provided to Timor-Leste on Internet exchange, in partnership with APNIC.

### 2011-2014

* Six training sessions were held under ITU ASP CoE on deployment of IPv6 for more than 150 participants with partners including APNIC, MICT (Thailand), NAv6 and TOT Academy.

### 2007-2011

* Regional Working Group & Public/Private Partnership Forum (PPPF-2007).
* Establishment of Model Community ICT Center for the Universal Service Fund, Pakistan.
* ITU Workshop on ICT Applications for Rural Communication Development.
* Operational plan for wireless technologies to deliver broadband services to Lifeline Organizations in the Philippines.
* ICT Master Plan for Thailand.
* Development and deployment of e-health in Nepal.
* Workshop on Gender Balance in the Digital Economy.
* Regional Workshop on the toolkit for training policy makers on mainstreaming ICT accessibility for persons with disabilities.
* Gender in ICTs.
* Implementation of National ICT Policy in Tonga.
* Assistance on Telecommunication Policy and Regulatory Reform in PNG.
* Assistance on Policy and Regulation to ANPT in Lao PDR.
* Establishment of National Internet Exchange of Afghanistan (NIXA).
* Introduction of countrywide IPTV service.
* Rural Internet Connectivity System (RICS) in Kiribati.
* Assessment of the effectiveness of telecentre deployment in Asia-Pacific.
* Rural Internet Connectivity System (RICS) implementation in the Pacific.
* Guidelines on migration to NGN and Infrastructure Development.
* Asia-Pacific Regional Forum for ICT Applications.
* Roadmap for e-Government Services Deployment.
* Development of Telecentre Toolkit.

## [C8. Cultural Diversity and Identity, Linguistic Diversity and Local Content](http://groups.itu.int/LinkClick.aspx?link=766&tabid=751&language=en-US)

### 2007-2011

* Workshop on Gender Balance in the Digital Economy.
* Gender in ICTs.
* Asia-Pacific Regional Forum for ICT Applications.
* Roadmap for e-Government Services Deployment.
* Development of Telecentre Toolkit.

## [C9. Media](http://groups.itu.int/LinkClick.aspx?link=767&tabid=751&language=en-US)

No Activity found

## [C10. Ethical Dimensions of the Information Society](http://groups.itu.int/LinkClick.aspx?link=768&tabid=751&language=en-US)

### 2014-2017

* Forum on Positive Use of Internet and Social Media in Public Service was organized in 2014 in Jakarta (Indonesia), in partnership with the Association of Southeast Asian Nations (ASEAN) and the Malaysian Communication and Multimedia Commission (MCMC).

## [C11. International and Regional Cooperation](http://groups.itu.int/LinkClick.aspx?link=769&tabid=751&language=en-US)

### 2018-2019

* Assistance on updating spectrum management strategies
* Assistance on updating NTFA
* Monitoring RF spectrum in modern wireless era
* Pacific Radio Communication Workshop 2019 (PRW-19)
* Regional Asia-Pacific spectrum management conference

### 2014-2017

* Within the framework of the Pacific regional project on the development of satellite communication capacity and emergency communication solutions for the Pacific Islands, cooperation agreements were signed with Pacific island Member States as beneficiaries. The project has a climate change adaptation component with the master service agreement with Intelsat for implementation in 2016.
* The moveable and deployable ICT resources unit (MDRU) project was initiated in 2014 after Typhoon Yolanda had ravaged the Philippines in 2013. The project, implemented in partnership with Japan’s Ministry of Internal Affairs and Communications (MIC), the Philippines Department of Science and Technology ICT Office (DOST-ICTO) and ITU, was launched and handed over to the Philippines DOST-ICTO in February 2015, enhancing the country’s capacity and readiness on disaster preparedness. Other partners engaged in the MDRU project include Nippon Telegraph and Telephone Corporation in Japan and the Central Visayas Information Sharing Network Foundation, Inc. in the Philippines. The MDRU project can be replicated in other municipalities in the Philippines, and in other Member States. MIC Japan is currently developing future GSM/LTE models for ease of deployment.
* From 2014 to 2016, ITU continued to support the region during disasters with appropriate and timely deployment of satellite communication equipment. The equipment deployed during these emergency situations included satellite phones, B-GAN satellite terminals, very small aperture terminals (VSATs) and QUALCOMM deployable base stations. Assistance was provided to the Philippines following Typhoon Yolanda in 2013 and Typhoon Ruby in 2014; to Vanuatu following Cyclone Pam in 2015; to Micronesia following Typhoon Maysak in 2015; to Nepal (Republic of) following an earthquake in 2015; to Myanmar following severe flooding in 2015; and to Fiji following Cyclone Winston in 2016.
* ITU contributed to the Asia-Pacific Broadcasting Union (ABU) Media Summit on Climate Change, ICTs and Disaster Risk Reduction in 2014, and to the sixth Asia-Pacific Telecommunity (APT) Workshop on Disaster Management/Communications (WDMC-6) in 2015 in Fiji by providing information on ITU standardization and development activities on emergency response in the Asia-Pacific region, as well as through presentations at the Emergency Telecommunications Cluster Workshop.
* ITU provided expertise to improve frameworks and capability in the areas of conformity, interoperability and type approval to several countries in the region through the following actions:

o In Ulaanbaatar (Mongolia), participants attended a review meeting on the type approval regime that improved understanding and expertise.

o In 2015, support to 38 ITU Member States was provided to APT in C&I programmes.

* From 2014 to 2015, awareness on new technologies and regulatory issues was provided through the following seminars and forums:

o The Asia-Pacific Regulators Roundtable brought together 55 participants from 24 countries in Australia (2014); 52 participants from 19 countries in Malaysia (2015); and 48 participants from 17 countries in Malaysia, (2015).

o The International Training Programme brought together 56 participants from 26 countries in Australia (2014); 62 participants from 18 countries in Malaysia (2015); and 66 participants from 18 countries in Pakistan (2016).

o Organized ITU-IDA Executive Training Programme in Singapore for participants from 14 countries (2014); from 10 countries (2015); and from 22 countries (2016).

o ITU and Malaysia’s MCMC coorganized the Asia-Pacific Regional Forum for Telecommunication/ICT and Financial Regulators on Digital Financial Inclusion (Malaysia 2015), supported by the Malaysian Ministry of Communications and Multimedia, Australia’s DOCA and the Bill and Melinda Gates Foundation. More than 70 delegates from 17 countries participated in the forum.

* ITU collaborated with APT in the following activities:

o A Seminar on Spectrum Management and Terrestrial TV Broadcasting, preceded by a Training Programme on Radio-Spectrum Management and Services, was organized by APT in collaboration with ITU (Fiji, 2015), bringing together participants from ten ITU Pacific islands, two regional organizations (APT and PITA), three ITU Member States from outside the Asia-Pacific region and four ICT industry organizations.

o ITU was engaged in preparations for ICT international conferences through a two-stage online and face-to-face, training (2016) with participants from 22 countries.

* The outcomes of WRC-15 were communicated in 2016 through multiple regional, subregional and national workshops, to ensure the harmonization of spectrum usage.

### 2011-2014

The Asia-Pacific Regional Development Forum (RDF-ASP) was organized back-to-back with the Asia-Pacific Regional Preparatory Meeting for WTDC 2014 (RPM-ASP) in April 2013 in Phnom Penh, Cambodia. RDF-ASP’s theme for 2013 was Asia-Pacific: Smartly DIGITAL (Digital-Intelligent-Greener-Innovative-Transparent-Accessible-Living) in Cambodia. The outcomes were used in the preparatory process of the overall review of the World Summit on the Information Society (WSIS+10).

### 2007-2011

* Virtual Forum on Knowledge Management for the Asia-Pacific Region
* Regional workshop on competencies and knowledge management for the Pacific Islands
* Regional Working Group & Public/Private Partnership Forum (PPPF-2007) – Asia-Pacific Region
* Regional policy & regulatory training for Asia-Pacific
* Regulatory study-visits to Bhutan & Nepal
* Training on bridging the standardization gap
* Regional seminar on costs and tariffs and regional meeting of the Tariff Group for Asia and Pacific (TAS)
* Workshop on information framework for CIOs
* Subregional Telecommunication Meeting for CLMV
* Study of different schemes for rural communication development in Asia-Pacific
* Ministerial meeting for South Asia
* Technical assistance on emergency warning & response in Tuvalu
* ITU/SPC cross-sectoral Ministerial Forum in the Pacific
* Regional Multi-Stakeholder Forum on Emergency Telecommunications
* National Cybersecurity Strategies & Cyber-Crime legislation
* Regional Workshop on Asset Recovery and Fighting Cybercrime
* Asia-Pacific Regional Forum for ICT Applications
* Roadmap for E-Government Services Deployment
* Development of Telecentre Toolkit
* Workshop on Human Resource Development in the Pacific

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