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| **Telecommunication DevelopmentAdvisory Group (TDAG)****24th Meeting, Geneva, 3-5 April 2019** | C:\Users\comas\AppData\Local\Temp\Rar$DRa0.735\jpg\ITU official logo_blue_RGB.jpg |
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|  | **Document** **TDAG-19/****INF4-E** |
|  | **12 February 2019** |
|  | **Original: English** |
| Director, Telecommunication Development Bureau |
| IMPLEMENTATION OF WTDC RESOLUTION 9 (Rev. Buenos Aires, 2017) |
|  |
| **Summary:** This document presents the list of ITU activities for implementation of Resolution 9 in addition to the Document 32.**Action required:** TDAG is invited to note this document.**References:** WTDC Resolution 9 (Rev. Buenos Aires, 2017) |

**Annex**

**IMPLEMENTATION OF RESOLUTION 9**

**TYPE OF ASSISTANCE**

1. Assistance in raising the awareness of national policy-makers as to the importance of effective spectrum management for a country's economic and social development;
2. Training and dissemination of available ITU documentation;
3. Assistance in developing methodologies for establishing national tables of frequency allocations and spectrum redeployment;
4. Assistance in setting up computerized frequency management and monitoring systems;
5. Economic and financial aspects of spectrum management;
6. Assistance with preparations for world radiocommunication conferences (WRC) and with follow-up and implementation of WRC decisions;
7. Assistance with participation in the work of the relevant ITU-R study groups and their working parties;
8. Transition to digital terrestrial television broadcasting;
9. Assistance in identifying the most efficient ways to utilize the digital dividend;
10. Emerging technologies and approaches in using spectrum;
11. Innovative ways of spectrum licensing;
12. Assistance with interference caused by devices in derogation of national spectrum allocations;
13. Assistance in resolving seasonal interference caused by anomalous propagation of radiowaves;
14. SMS4DC Training.

| **EVENT** | **COUNTRY/AREA/REGION** | **DATE** | **ACTIVITIES/RESULTS** | **WEB LINK** | **TYPE OF ASSISTANCE(see above explanation)** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** |
| 4th Annual Middle East and North Africa Spectrum Management Conference | ARB | 12.04.18 | The Forum Global Conference was attended by more than 170 participants.  | <https://eu-ems.com/summary.asp?event_id=4350&page_id=9374> |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |
| ITU workshop on The Future Utilization of the UHF band in the Arab Region | ARBMarrakech, Morocco | 12.04.18 | The ITU workshop was attended by around 70 participants representing administrations, regulators, broadcasters, industry and operators. It Provided platform to look at the progress that has been made with the allocation of the 700 and 800MHz bands across the Arab region and the band plans that are emerging, and then look at the picture in the wider UHF band (including 600MHz), and at the likely future shape of the UHF band as a whole across the region. In addition, three country experiences from Egypt, Morocco, and Sudan, were presented. | [The Future Utilization of the UHF band in the Arab Region](https://www.itu.int/en/ITU-D/Regional-Presence/ArabStates/Pages/Events/2018/FUHF/FUHF.aspx) | 1 |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |
| Implementation of the “Basic National Spectrum Management System” project – ASSISTANCE TO COMOROS | ARBComoros | 1st phase:30.10-03.11.172nd phase:16-20.04.18  | Assistance provided to Comoros in two phases, in which resulted that workplan developed for implementing/updating the national spectrum management structures and activities.The first phase was a scoping mission to Comoros to explain the assistance's challenges and objectives, and to collect information from the involved stakeholders for the assessment.The second phase of the assistance run in Moroni where a series of training on radio spectrum and a workshop on Analog to Digital Transition (A-D Transition) have been provided to the ANRTIC staff. |  | 1 |  | 1 |  |  |  |  | 1 | 1 |  |  |  |  |  |
| National training on Spectrum Pricing Policy Framework and on spectrum policy, spectrum regulation, spectrum pricing methodologies and spectrum management | ARBSudan | 12-14.03.18 | Developed Spectrum Pricing Policy Framework for Sudan and raised awareness on spectrum policy, spectrum regulation, spectrum pricing methodologies and spectrum management for staff of Sudan’s National Telecom and Postal Regulatory Authority (TPRA) during a national training workshop organized in Khartoum.The workshop also validated the spectrum-pricing framework developed by ITU for TPRA-Sudan. The training attended by more than 25 staff members including the DG and Director, lawyers, administrators, licensing officers, monitoring technicians, and several spectrum engineers from Mobile Network Operators of Sudan. |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |
| ITU Arab Regional Workshop on “Furthering IMT Development: Policy, Spectrum Valuation and Auctions” | ARBRiyadh, Saudi Arabia | 18-19.12.18 | The workshop attended by more than 100 participants from Administrations, Private sector, intergovernmental organizations operating satellite systems, regional and other international organizations, and academia from 8 Arab countries namely: Djibouti, Egypt, Kuwait, Mauritania, Oman, Saudi Arabia, Sudan, and UAE.The workshop shed light on the Spectrum Management and it's recent international trends and developments in the applied context of developing the International Mobile Telecommunication (IMT) networks and services; and observed the state-of-the-art with the development of IMT, 4G/5G networks and relevant spectrum use trends in the Arab region; become familiar with the main economic principles underpinning the efficient SM. It provided platform to specialists to become familiar with the main economic principles underpinning the efficient SM and to learn about the best practices in spectrum valuation and applying market-based mechanisms for spectrum awards, and learn the specific case studies and share experiences regarding conduct of recent IMT spectrum auctions as well as applying administrative spectrum pricing. | [Furthering IMT Development: Policy, Spectrum Valuation and Auctions](https://www.itu.int/en/ITU-D/Regional-Presence/ArabStates/Pages/Events/2018/SP/SP.aspx) | 1 | 1 |  |  | 1 |  |  |  | 1 | 1 |  |  |  |  |
| Planned workshop on SMS4DC | ARBSomalia | 23-27.12.18 | The workshop aiming to provide hands on training to the participants of newly established National Communications Authority of Somalia on spectrum management using ITU SMS4DC software. |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Regional Conference for CIS on Perspective Services in Post-NGN, 4G and 5G. Organizational and Technical Solutions for their Implementation and Protection | CISKiev, Ukraine | 7-9.06.17 |  | [Kiev\_June\_2017](https://www.itu.int/en/ITU-D/Regional-Presence/CIS/Pages/EVENTS/2017/06_Kiev/06_Kiev.aspx) | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Regional Spectrum Management Conference and ITU Regional Workshop on Practical Use of Radio Regulations | CISYerevan, Armenia | 12-13.12.17 |  | [Yerevan\_12-13December\_2017](https://www.itu.int/en/ITU-D/Regional-Presence/CIS/Pages/EVENTS/2017/12_Yerevan/12_Yerevan.aspx) | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Regional Seminar for Europe and CIS on Digital Future Powered by 4G/5G | CISKiev, Ukraine | 14-16.05.18 |  | [Kiev\_May\_2018](https://www.itu.int/en/ITU-D/Regional-Presence/CIS/Pages/EVENTS/2018/05_Kiev/05_Kiev.aspx) | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Regional Workshop "Current Trends and Best Practices of Satellite Communication" | CISMinsk, Belarus | 22-23.05.18 |  | [Minsk\_May\_2018](https://www.itu.int/en/ITU-D/Regional-Presence/CIS/Pages/EVENTS/2018/05_Minsk/05_Minsk.aspx) | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Regional Seminar for CIS and Europe "Development of modern radiocommunication ecosystems" | CISSt. Petersburg, Russia | 6-8.06.18 |  | [StPetersburg\_June\_2018](https://www.itu.int/en/ITU-R/study-groups/workshops/DMRE-CIS-Europe/Pages/default.aspx) | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Regional Workshop “Broadband Development based on 4G and 5G Technologies” | CISAlmaty, Kazakhstan | 17-18.09.18 |  | [Almaty\_17-18September\_2018](https://www.itu.int/en/ITU-D/Regional-Presence/CIS/Pages/EVENTS/2018/09_Almaty/09_Almaty.aspx) | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2nd Annual CIS and Central and South-Eastern European Spectrum Management Conference | CISAlmaty, Kazakhstan | 19-20.09.18 |  | [Almaty\_19-20September\_2018](https://www.itu.int/en/ITU-D/Regional-Presence/CIS/Pages/EVENTS/2018/09_Almaty/09_Almaty.aspx) | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Joint ITU-ITSO Training on Satellite Communication | CISMinsk, Belarus | 1-5.04.19 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3rd Annual Spectrum Management Conference for CIS and Central and Eastern Europe | CISMinsk, Belarus | 8-9.04.19 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Workshop on Radiomonitoring | CISMinsk, Belarus | 10-11.04.19 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Workshop for Europe and CIS “ICT Infrastructure as a basis for Digital Economy” | CISKiev, Ukraine | 14-16.05.19 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ITU Regional Workshop on Practical Use of Radio Regulations | CISYerevan, Armenia | 14-15.12.17 |  | [Yerevan\_14-15December\_2017](https://www.itu.int/en/ITU-D/Regional-Presence/CIS/Pages/EVENTS/2017/12_Yerevan/12_Yerevan.aspx) |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |
| Workshop on Radiocommunication | CISTashkent, Uzbekistan | 10-14.06.19 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Assistance in redistributing digital dividend frequencies for new technologies including IoT in the Kyrgyz Republic | CISKyrgyz Republic | August-December 2018 |  | [Kyrgyz\_Assistance\_2018](https://www.itu.int/en/ITU-D/Regional-Presence/CIS/Pages/Activities2018.aspx) |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |
| ITU Regional Workshop "Cooperation with ITU: Opportunities for Member-States, Sector Members and Academia. ITU Structure and Working Methods Explained" | CISTashkent, Uzbekistan | 28-30.11.17 |  | [Tashkent\_November\_2017](https://www.itu.int/en/ITU-D/Regional-Presence/CIS/Pages/EVENTS/2017/11_Tashkent/11_Tashkent.aspx) |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |
| AFRICA, FRATEL 2018 | AFRMadagascar | 25-26.04.18 | Regulators sensitized on spectrum issues | [Madagascar\_April\_2018](https://www.itu.int/en/ITU-D/Regional-Presence/Africa/Pages/SNNIPETS-Madagascar-.aspx)  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Africa RDF 2018 | AFRAccra, Ghana | 18-20.07.18 | RDF approved 4 projects related to RI on Spectrum | [RDF AFR\_Ghana\_July\_2018](https://www.itu.int/en/ITU-D/Regional-Presence/Africa/Pages/RDF-Africa-2018.aspx)  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFRICA ARTAC meeting | AFREquatorial Guinea | 6-7.08.18 | ARTAC meeting approved a roadmap for Cross border frequency coordination between Gabon-Eq. Guinea, Cameroon-Eq. Guinea and Chad-Cameroon |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ghana/AfricaRegional Workshop on Spectrum monitoring | AFRAccra, Ghana | 23-24.07.18 | Regional workshop attended by 180 experts in radio communication, Documentation provided to the attendeesPresentations and use of new tools and equipment on spectrum monitoring were deliveredPresentations made during the workshop on economic aspects of 5G spectrum licensing. | [Ghana\_July\_2018](https://www.itu.int/en/ITU-D/Regional-Presence/Africa/Pages/National-Spectrum-Management-Assistance-Workshop-.aspx)  |  | 1 |  | 1 | 1 |  |  |  |  |  |  |  | 1 | 1 |
| UAR training | AFRAlgeria | 8-11.12.18 | One TV expert of Burundi attended and trained with ITU assistance | [www.uar-abu.org](http://www.uar-abu.org)  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| SMS4DC training and assistance on NTFA  | AFRSao Tome | 24-27.04.18 | 8 experts in Sao Tome , and 12 in Burundi and 9 in Malawi have received national training on SMS4DC  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |
| Training and Assistance in SMS4DC | AFRBurundi | 25-28.06.18 | New frequency allocations tables are ongoing for Burundi |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |
| SMS4DC training | AFRBlantyre, Malawi | 10-14.12.18 | MACRA(Malawi) is now in possession of SMS4DC tool they are able to use the tool for analysis of FM Band in broadcasting networks/stations |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |
| Regional Economic Dialogue (RED) for Africa | AFROuagadougou, Burkina Faso | 8-9.10.18 | Session on Economic Impact of 5G and licensing considerations | [BurkinaFaso\_October\_2018](https://www.itu.int/en/ITU-D/Regulatory-Market/Pages/Events2018/RED-AFR18_BurkinaFaso/Agenda.aspx)  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |
| Africa Spectrum 2018 Workshop on DTT | AFRKenya | 6-7.03.18 | 120 experts attended the workshop on DTT technologies | [Kenya\_March\_2018](https://www.itu.int/en/ITU-D/Regional-Presence/Africa/Pages/Spectrum-Management.aspx) |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |
| Spectrum Africa 2018 | AFRKenya | 8-9.03.18 | 240 people attended the spectrum ConferencePresentations were delivered on spectrum usage in emerging technologies during the Conference | [Kenya\_March\_2018](https://www.itu.int/en/ITU-D/Regional-Presence/Africa/Pages/Spectrum-Management.aspx) |  |  |  |  |  |  |  |  | 1 | 1 | 1 |  |  |  |
| Africa, ITU expert Mission in Harare, for investigating harmful interference | AFR | 18-22.06.18 | A deep analysis and report was produced and published in order to solve the INTERFERENCE between BROADCASTING SERVICE AND FI1ED SERVICE |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |
| Assessment of market readiness for future IMT2020 (5G) networks  | ASP/Brunei | Q2 & Q3 2018 | A detailed country assistance report was provided which assesses the readiness of Brunei to implement IMT (5G) technology. The assessment looks at the market readiness as well as the regulatory issues that need to be addressed to facilitate the introduction of IMT2020. Gap analysis and Recommendations were provided specifically on:* *Spectrum Availability*
* *Access to Infrastructure*
* *Backhaul Requirements*
* *Licensing Conditions*
 |  | 1 |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |
| 4th Annual Asia-Pacific Spectrum Management Conference: *supporting ITU Asia-Pacific Regional Initiative on Spectrum Management* | ASP/Thailand | 16-19 July 2018 | 229 participants representing administrations, regulators, industry and operators from around 38 countries attended the conference.Fellowship support was provided to 11 countries from ASP through ITU-MSIT project. In addition, support was extended to 4 additional ASP countries through event partner directly. | [http://www.itu.int/go/ASMC-18](https://www.itu.int/go/auth/UpdateUserDefined.aspx?key=ASMC-18) | 1 |  |  |  | 1 | 1 |  | 1 | 1 | 1 | 1 |  |  |  |
| Monitoring RF Spectrum in Modern Wireless Era | ASP/China | 16-20 April 2018  | 1. 5-Day CoE training covered technical sessions on practical implementation of:
* *Big data in Spectrum Monitoring*
* *Space Radio Monitoring,*
* *IoT and IMT Spectrum issues,*
* *Monitoring UAVs and required countermeasures*
* *Satellite monitoring*
1. The learning content included:
* *13 class based sessions*
* *2 field visits*
* *4 outdoor demonstrations*
* *15 country case studies*
1. 43 participants including
* *25 from outside china representing 13 countries from ASP*
* *18 participants from inside china representing 9 SRMC stations in different provinces of china*
* *4 exhibitors*
 | [Event webpage](https://www.itu.int/en/ITU-D/Regional-Presence/AsiaPacific/Pages/Events/2018/SMWE-China/main.aspx) |  | 1 |  | 1 |  | 1 |  |  |  | 1 |  |  |  |  |
| Developing regulations for Maritime wireless communication for Indonesia | ASP/Indonesia | Q2 & Q3 2018 | A detailed country assistance report was provided with recommendations on:* *Maritime Services Band Plan in VHF and HF Band (in accordance with RR and MARS databases)*
* *Regulatory measures for Small Vessel Communication in Maritime Service*
* *Maritime Radio Equipment On-board small vessel*
 |  | 1 | 1 | 1 |  |  |  | 1 |  |  |  | 1 | 1 |  |  |
| Pacific Radiocommunication Workshop 2018 (PRW-18) | ASP/Solomon Islands | 4-5 September 2018 | Attended by 37 participants representing 8 Pacific Island countries. 4 country case studies on spectrum management from Pacific were presented during the workshop (Vanuatu, Solomon Islands, Samoa and Fiji) | [Event Webpage](https://www.itu.int/en/ITU-D/Regional-Presence/AsiaPacific/Pages/Events/2018/PRW-18/main.aspx) | 1 |  | 1 | 1 |  | 1 |  |  |  |  |  |  |  |  |
| Innovative selection process of a third major telecommunication service provider in the Philippines | ASP/Philippines | Q1 – Q3 2018 | A detailed country assistance report was provided with recommendations on:* *The primary radio frequencies that may be assigned to the new operator*
* *Rules and Regulations on the selection of a new major player in the public telecommunications market*
 |  | 1 |  | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |
| Radio Frequencies used by Small Vessel use for Fishing Activity In Indonesia | ASP/Indonesia | 26 April 2018 | Inter-ministerial workshop attended bovver 70 participants. The topics covered included:* *Updates from WRC-15*
* *Channel arrangements in VHF and HF bands,*
* *MMSI numbering arrangements*
* *Technical and minimum requirements for radio equipment on board small vessels.*
* *Requirements for direct communication between small ships and shore, distress calls, and for ship tracking*
 |  | 1 | 1 | 1 |  |  |  |  |  |  | 1 | 1 | 1 |  |  |
| Training on SMS4DC | ASP/Solomon Islands | 6 September 2018 | Attended by 37 participants representing 8 Pacific Island countries. Higher resolution Digital Elevation Maps (DEMs) for Pacific were launched and assistance was provided to successfully install the Maps with relevant participants from the Pacific countriesTraining exercises on spectrum licensing and data basing using SMS4DC | [Event Webpage](https://www.itu.int/en/ITU-D/Regional-Presence/AsiaPacific/Pages/Events/2018/PRW-18/main.aspx) |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  | 1 |
| Regional Radiocommunication Seminar for Asia&Pacific (RRS-18-Asia&pacific) | ASP/Bhutan | 23-28 July 2018 | BR lead event in cooperation with APT, supported by RO-ASP through session moderation and making available expert resource from the region (as speaker) on various technical issues. | [Event Webpage](https://www.itu.int/en/ITU-R/seminars/rrs/2018-Asia-Pacific/Pages/default.aspx) | 1 | 1 |  |  |  | 1 | 1 |  |  |  | 1 |  |  |  |
| Regional Radiocommunication Seminar for the Americas(RRS-18-Americas) | AMS/Costa Rica  | 24-28 September 2018 | BR lead event in cooperation with CITEL and COMTELCA; supported by RO-ASP==MS through session moderation and making available expert resource from the region (as speaker) on various technical issues. | [Event Webpage](https://www.itu.int/en/ITU-R/seminars/rrs/2018-Americas/Pages/default.aspx) | 1 | 1 |  |  |  | 1 | 1 |  |  |  | 1 |  |  |  |
| World Radiocommunication Seminar WRS-18 | BR/Geneva | 3-7 December 2018 | BR lead event dealing with the use of the radio-frequency spectrum and the satellite orbits, and, in particular, with the application of the provisions of the ITU Radio Regulations. | Event [Webpage](https://www.itu.int/en/ITU-R/seminars/wrs/2018/Pages/default.aspx) | 1 | 1 |  |  |  | 1 | 1 |  |  |  | 1 |  |  |  |
| Update of National Table of Frequency Allocations | ASP/Bangladesh | Q3 & Q4 2018 | Report covering:* *Updated National Table of Frequency Allocations*
* *National Frequency Plans*
* *Wall chart of N-TFA*
* *Example of border-agreement*

Capacity building event on Agenda Items of WRC-19, Outcome of WRC-15, Workshop On N-TFA. |  |  |  | 1 |  |  | 1 | 1 |  |  |  |  | 1 |  |  |
| Update of National spectrum Allocation strategies | ASP/Vanuatu | Q3 2018 | Remote assistance included country assistance on:* *Update and alignment of draft NTFA with ITU Radio Regulations 2016.*
* *Channelling plan for aeronautical frequencies in VHF, GMDSS, Maritime and other services.*
* *Cross verification for allotments of Vanuatu for coastal stations, FSS and BSS satellite downlink and feeder link as per the AP30, AP30A and AP 30B of the RR.*
 |  |  | 1 | 1 |  |  | 1 |  |  |  | 1 |  |  |  |  |
| Support for Transition from Analogue to Digital Broadcasting in the Americas Region | AMSBoliviaColombiaCosta RicaDominican RepublicEl SalvadorGuatemalaHondurasJamaicaNicaraguaPanamaParaguayVenezuela | Jan-14/Dec-16 | Assist countries in the Americas region in smoothly transitioning from analogue to digital terrestrial television broadcasting through the use of ITU guidelines (policy, regulatory, economic, market and business development, and technologies and networks issues) for the development of roadmaps for the transition from analogue to digital terrestrial television broadcasting |  | 1 |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |
| Advise and support the Ministry of Information and Communication Technologies (MinTIC) in the development of the technical policy of the Sound Broadcasting Services. | AMSColombia | Jul-16/Jul-18 | Development of studies, analyses and proposals related to:-The diagnosis and updating of National Technical Plans of Sound Radio Broadcasting - PTNRS;Definition of the technological strategy for the new AM and FM sound broadcasting -Proposal of new technologies for sound broadcasting;-Proposal of a manual of good practices for assembly of radio stations;-Technical specification of a web tool for management and control of the PTNRS and the radio broadcasting concessionaires;-Training and socialization activities. |  | 1 |  | 1 |  | 1 |  |  |  |  | 1 | 1 |  |  |  |
| Diagnosis and audit to the objective selection process for the assignment of Radio Spectrum | AMS Colombia | Dec-16/Jan-18 | Support the MINTIC in the realization of a diagnosis and audit of the Spectrum Allocation Process in order to strengthen the management, analysis, administration, planning and allocation of the radioelectric spectrum within the framework of the integrated management model of the MinTIC. |  | 1 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |
| Strategy design for the implementation of international best practices in the allocation of spectrum attributed to the IMT services | AMS Colombia | Nov-17/Dec-18 | Cooperation and technical assistance efforts to contribute in the validation and improvement of Spectrum Assignment processes for IMT (International Mobile Telecommunications) bands |  | 1 |  |  |  | 1 |  |  |  | 1 | 1 | 1 |  |  |  |
| Technical assistance to validate, plan and execute the allocation of permits for the use of IMT spectrum and for the use of best practices for the increase of Internet penetration | AMSColombia | Feb-19/Dec-20 | Support the planning and execution of the process for the granting of permits and their assessment for use of the radio spectrum in IMT bands, and to have benchmarks of international good practices that have demonstrated their effectiveness in increasing Internet penetration, especially in low-income segments of the population in accordance with the outstanding experience of the telecommunications industry. |  | 1 |  |  |  | 1 |  |  |  | 1 |  | 1 |  |  |  |
| Caribbean Spectrum Management Task Force | AMSCaribbean Countries | 31 January - 2 February 2018 | 30 participants from Caribbean countries provided contributions on the relevant reports of the Task Force (digital broadcasting transition, cross-border frequency coordination, emergency communication, spectrum pricing). |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spectrum management and digital transition |  |  | The ITU is in the process of providing assistance to Guyana in relation to the Spectrum Management Technical Assistance Services as well as Spectrum Management Spectrum Management Training Workshop. |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |
| Support on Cross Border frequency coordination for Central America & Caribbean countries. | AMSCentral America and Caribbean Region4 meetings:-March 2017 Nicaragua-August 2017 Guatemala- May 2018 Panama-September 2018 Belize | Mar-17/Dec-18 | ITU in close cooperation with CITEL, COMTELCA and CTU completed the exercise for Frequency Coordination. The achieved average percentages were around 96% for UHF band and 94% for VHF band of assignable digital TV channels, i.e. the percentage of the frequency requirements which are compatible with each other and with operating analogue and other primary services’ stations. | [Event\_Webpage](https://www.itu.int/en/ITU-R/terrestrial/broadcast/Americas/Pages/default.aspx) | 1 |  | 1 |  | 1 | 1 |  | 1 |  |  | 1 |  |  |  |
| ITU WRC-19 Regional Workshop for Region 2  | AMS | March 2018 Cuba | In close cooperation with CITEL, COMTELCA, CTU, CEPT to debate and exchange views on WRC-19 Agenda items, including IMT, space services and other services. | [Event\_Webpage](https://www.itu.int/en/ITU-R/terrestrial/broadcast/Americas/Pages/default.aspx) | 1 | 1 |  |  |  | 1 | 1 |  |  | 1 |  |  |  |  |
| ITU Inter-regional Workshops on WRC-19 Preparation | BR/Geneva | 1st: Nov/17 2nd Nov/18 | In cooperation with the 6 relevant Int. Org.: APT, ASMG, ATU, CITEL, CEPT, RCC; to exchange views and have a better understanding of the draft common views, positions and/or proposals of the concerned entities |  | 1 | 1 |  |  |  | 1 | 1 |  |  | 1 |  |  |  |  |
| Establishing basic spectrum management system  | AMS Bolivia | 17 to 25 May | Bolivia was assisted on establishing basic spectrum management system from 17 to 25 May, and the final recommendation was delivered to beneficiary country.  |  | 1 |  | 1 | 1 | 1 |  |  | 1 |  |  | 1 |  |  |  |
| The “5th Annual Latin America Spectrum Management Conference” & a “Workshop on Spectrum and Community Networks”  | AMSRegional | 5-7 Sep-18 | Co-organized with Forum Global. 167 registered participants coming from 16 different countries (12 from Latin America). Both events raised all stakeholders’ capacity to understand the importance of managing efficiently spectrum resources. Visibility of community networks increased as a feasible alternative to connect the unconnected. A project was drafted to work with Internet Society and Fundación Getulio Vargas in the development of a toolkit and the implementation of ad hoc assistance to implement community networks. | <https://eu-ems.com/summary.asp?event_id=4368&page_id=9568> | 1 |  |  |  | 1 | 1 |  | 1 |  |  | 1 |  |  |  |
| Updating the Digital Dividend report |  |  | The Version 2012 of the report was updated | <https://www.itu.int/en/ITU-D/Spectrum-Broadcasting/Documents/Publications/DigitalDividend_Final_2018.pdf> |  |  |  |  | 1 |  |  | 1 | 1 |  |  |  |  |  |
| SMS4DC further development and assistance to countries |  |  | Updating some technical calculations, back-stop support, installation from USB key (not only from CD) |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Technical assistance to SIGET El Salvador |  | Feb-July 2018 | Technical support planning the DTT transition and DD release, as well as spectrum valuation reference for renewal/new licensing process of IMT Bands |  | 1 |  | 1 |  | 1 |  |  | 1 | 1 |  |  |  |  |  |
| Technical assistance to INDOTEL, Dominican Republic |  | July 2018-dec 2019 | Technical support planning the national SM, including NFTA; planning DTT transition and DD release; spectrum valuation reference for renewal/new licensing process of IMT Bands |  | 1 |  | 1 |  | 1 |  |  | 1 | 1 |  |  |  |  |  |
| Updating the ITU DSO database (digital broadcasting transition) |  |  |  | <https://www.itu.int/en/ITU-D/Spectrum-Broadcasting/Pages/DSO/default.aspx> |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |
| 2018 International Advisory Committee meetings of the WHO Non-Ionizing Radiation Programme |  | Portorož, Slovenia, 21-22 June 2018 | EMF activities |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5G Implementation in Europe and CIS: Strategies and Policies Enabling New Growth Opportunities | EUR | Budapest, Hungary, 3-5 July 2018 | Future challenges to be addressed in infrastructure roll-out, spectrum management and broadcasting to ensure that Europe and CIS regions are equipped with relevant measures and effective tools. | <https://www.itu.int/en/ITU-D/Regional-Presence/Europe/Pages/Events/2018/5G/default.aspx>  | 1 | 1 |  |  | 1 | 1 | 1 |  | 1 | 1 | 1 |  |  |  |

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